NONE for the initial task order. For future task orders, any excepted materials and/or components will be designated in future TO RFPs.

- (4) The Contracting Officer may add other foreign construction material to the list in paragraph (b)(3) of this clause if the Government determines that—
- (i) The cost of domestic construction material would be unreasonable. The cost of a particular domestic construction material subject to the restrictions of the Buy American statute is unreasonable when the cost of such material exceeds the cost of foreign material by more than **25 percent**;
- (ii) The application of the restriction of the Buy American Act to a particular construction material would be impracticable or inconsistent with the public interest; or
- (iii) The construction material is not mined, produced, or manufactured in the United States in sufficient and reasonably available commercial quantities of a satisfactory quality.
- (c) Request for determination of inapplicability of the Buy American statute.
- (1)(i) Any Contractor request to use foreign construction material in accordance with paragraph (b)(4) of this clause shall include adequate information for Government evaluation of the request, including—
- (A) A description of the foreign and domestic construction materials;
- (B) Unit of measure;
- (C) Quantity;
- (D) Price;
- (E) Time of delivery or availability;
- (F) Location of the construction project;
- (G) Name and address of the proposed supplier; and
- (H) A detailed justification of the reason for use of foreign construction materials cited in accordance with paragraph (b)(3) of this clause.
- (ii) A request based on unreasonable cost shall include a reasonable survey of the market and a completed price comparison table in the format in paragraph (d) of this clause.
- (iii) The price of construction material shall include all delivery costs to the construction site and any applicable duty (whether or not a duty-free certificate may be issued).
- (iv) Any Contractor request for a determination submitted after contract award shall explain why the Contractor could not reasonably foresee the need for such determination and could not have requested the determination before contract award. If the Contractor does not submit a satisfactory explanation, the Contracting Officer need not make a determination.
- (2) If the Government determines after contract award that an exception to the Buy American statute applies and the Contracting Officer and the Contractor negotiate adequate consideration, the Contracting Officer will modify the contract to allow use of the foreign construction material. However, when the basis for the exception is the unreasonable price of a domestic construction material, adequate consideration is not less than the differential established in paragraph (b)(4)(i) of this clause.
- (3) Unless the Government determines that an exception to the Buy American statute applies, use of foreign construction material is noncompliant with the Buy American statute.
- (d) *Data*. To permit evaluation of requests under paragraph (c) of this clause based on unreasonable cost, the Contractor shall include the following information and any applicable supporting data based on the survey of suppliers:

FOREIGN AND DOMESTIC CONSTRUCTION MATERIALS PRICE COMPARISON

<b>Construction Material Description</b>	Unit of	Quantity	Price	
	Measure		(Dollars)*	
Item 1:				
Foreign construction material			<del></del>	
		24		BW8 FOIA CBP 000533

Domestic construction material	
Item 2:	
Foreign construction material	
Domestic construction material	
[List name, address, telephone number, and	nd contact for suppliers surveyed. Attach copy of response; if oral,
attach summary.]	
[Include other applicable supporting info	rmation.]
[* Include all delivery costs to the construction of the construct	uction site and any applicable duty (whether or not a duty-free entry

# 52.236-1 - Performance of Work by the Contractor (Apr 1984)

The Contractor shall perform on the site, and with its own organization, work equivalent to at least 25% percent of the total amount of work to be performed under the contract. This percentage may be reduced by a supplemental agreement to this contract if, during performing the work, the Contractor requests a reduction and the Contracting Officer determines that the reduction would be to the advantage of the Government.

#### **52.236-4 -- Physical Data (Apr 1984)**

Data and information furnished or referred to below is for the Contractor's information. The Government shall not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.

- (a) The indications of physical conditions on the drawings and in the specifications are the result of site investigations N/A.
- (b) Weather conditions N/A.
- (c) Transportation facilities N/A.
- (d) Per TO RFP, as applicable. No physical data is being provided for the initial task order. Physical data being provided for any future task orders will be provided, as applicable, in future TO RFPs.

#### 52.236-21 - Specifications and Drawings for Construction (Feb 1997), Alternate II (Apr 1984)

- (a) The Contractor shall keep on the work site a copy of the drawings and specifications and shall at all times give the Contracting Officer access thereto. Anything mentioned in the specifications and not shown on the drawings, or shown on the drawings and not mentioned in the specifications, shall be of like effect as if shown or mentioned in both. In case of difference between drawings and specifications, the specifications shall govern. In case of discrepancy in the figures, in the drawings, or in the specifications, the matter shall be promptly submitted to the Contracting Officer, who shall promptly make a determination in writing. Any adjustment by the Contractor without such a determination shall be at its own risk and expense. The Contracting Officer shall furnish from time to time such detailed drawings and other information as considered necessary, unless otherwise provided.
- (b) Wherever in the specifications or upon the drawings the words "directed", "required", "ordered", "designated", "prescribed", or words of like import are used, it shall be understood that the "direction", "requirement", "order", "designation", or "prescription", of the Contracting Officer is intended and similarly the words "approved", "acceptable", "satisfactory", or words of like import shall mean "approved by," or "acceptable to", or "satisfactory to" the Contracting Officer, unless otherwise expressly stated.
- (c) Where "as shown," as indicated", "as detailed", or words of similar import are used, it shall be understood that the reference is made to the drawings accompanying this contract unless stated otherwise. The word "provided" as used herein shall be understood to mean "provide complete in place," that is "furnished and installed".
- (d) Shop drawings means drawings, submitted to the Government by the Contractor, subcontractor, or any lower tier subcontractor pursuant to a construction contract, showing in detail
- (1) the proposed fabrication and assembly of structural elements, and
- (2) the installation (i.e., fit, and attachment details) of materials or equipment. It includes drawings, diagrams, layouts, schematics, descriptive literature, illustrations, schedules, performance and test data, and similar materials furnished by the contractor to explain in detail specific portions of the work required by the contract.

The Government may duplicate, use, and disclose in any manner and for any purpose shop drawings delivered under this contract.

- (e) If this contract requires shop drawings, the Contractor shall coordinate all such drawings, and review them for accuracy, completeness, and compliance with contract requirements and shall indicate its approval thereon as evidence of such coordination and review. Shop drawings submitted to the Contracting Officer without evidence of the Contractor's approval may be returned for resubmission. The Contracting Officer will indicate an approval or disapproval of the shop drawings and if not approved as submitted shall indicate the Government's reasons therefor. Any work done before such approval shall be at the Contractor's risk. Approval by the Contracting Officer shall not relieve the Contractor from responsibility for any errors or omissions in such drawings, nor from responsibility for complying with the requirements of this contract, except with respect to variations described and approved in accordance with (f) below.
- (f) If shop drawings show variations from the contract requirements, the Contractor shall describe such variations in writing, separate from the drawings, at the time of submission. If the Contracting Officer approves any such variation, the Contracting Officer shall issue an appropriate contract modification, except that, if the variation is minor or does not involve a change in price or in time of performance, a modification need not be issued.
- (g) The Contractor shall submit to the Contracting Officer for approval four copies (unless otherwise indicated) of all shop drawings as called for under the various headings of these specifications. Three sets (unless otherwise indicated) of all shop drawings, will be retained by the Contracting Officer and one set will be returned to the Contractor.

Upon completing the work under this contract, the Contractor shall furnish 3 sets of prints of all shop drawings as finally approved. These drawings shall show changes and revisions made up to the time the equipment is completed and accepted.

[END OF SECTION I]

BW8 FOIA CBP 000535

# Section J - List of Documents, Exhibits and Other Attachments

Attachment #1: Statement of Work

Attachment #2: Supporting Price Details Spreadsheet Attachment #3: Past Performance Reference Questionnaire

Attachment #4: CBP Subcontracting Plan Template
Attachment #5: Wage Determination (for the prototype)

Attachment #6: SF-24 (Bid Bond)

Attachment #7: SF-25 (Payment and Performance Bonds)

Attachment #8: Project Performance Survey

[END OF SECTION J]

27

BW8 FOIA CBP 000536

# Section K-Representation, Certifications, and Other Statement of Offerors and Respondents

# 52.252-1 -- Solicitation Provisions Incorporated by Reference (Feb 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es): http://farsite.hill.af.mil/vffara.htm and http://farsite.hill.af.mil/vfhsara.htm

# 52.204-16 - Commercial and Government Entity Code Reporting (Jul 2016)

52.204-19 - Incorporation by Reference of Representations and Certifications (Dec 2014)

52.204-22 - Alternative Line Item Proposal (Jan 2017)

52.216-27 - Single or Multiple Awards (Oct 1995)

52.232-13 - Notice of Progress Payments (Apr 1984)

# 52.204-8 - Annual Representations and Certifications (Jan 2017)

(a)

- (1) The North American Industry classification System (NAICS) code for this acquisition is 236220.
- (2) The small business size standard is \$36.5 million.
- (3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b)

- (1) If the provision at 52.204-7, System for Award Management, is included in this solicitation, paragraph (d) of this provision applies.
- (2) If the provision at 52.204-7 is not included in this solicitation, and the offeror is currently registered in the System for Award Management (SAM), and has completed the Representations and Certifications section of SAM electronically, the offeror may choose to use paragraph (d) of this provision instead of completing the corresponding individual representations and certification in the solicitation. The offeror shall indicate which option applies by checking one of the following boxes:
- [\_] (i) Paragraph (d) applies.
- [\_] (ii) Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c)

- (1) The following representations or certifications in SAM are applicable to this solicitation as indicated:
- (i) 52.203-2, Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless—
- (A) The acquisition is to be made under the simplified acquisition procedures in Part 13;
- (B) The solicitation is a request for technical proposals under two-step sealed bidding procedures; or
- (C) The solicitation is for utility services for which rates are set by law or regulation.
- (ii) 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed \$150,000.
- (iii) 52.204-3, Taxpayer Identification. This provision applies to solicitations that do not include the provision at 52.204-7, System for Award Management.
- (iv) 52.204-5, Women-Owned Business (Other Than Small Business). This provision applies to solicitations that—
- (A) Are not set aside for small business concerns;
- (B) Exceed the simplified acquisition threshold; and

- (C) Are for contracts that will be performed in the United States or its outlying areas.
- (v) 52.209-2, Prohibition on Contracting with Inverted Domestic Corporations—Representation.
- (vi) 52.209-5; Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.
- (vii) 52.209-11, Representation by Corporations Regarding Delinquent Tax Liability or a Felony Conviction under any Federal Law. This provision applies to all solicitations.
- (viii) 52.214-14, Place of Performance--Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.
- (ix) 52.215-6, Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.
- (x) 52.219-1, Small Business Program Representations (Basic & Alternate I). This provision applies to solicitations when the contract will be performed in the United States or its outlying areas.
- (A) The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.
- (B) The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.
- (xi) 52.219-2, Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract will be performed in the United States or its outlying areas.
- (xii) 52.222-22, Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at 52.222-26, Equal Opportunity.
- (xiii) 52.222-25, Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at 52.222-26, Equal Opportunity.
- (xiv) 52.222-38, Compliance with Veterans' Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial items.
- (xv) 52.223-1, Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of USDA-designated items; or include the clause at 52.223-2, Affirmative Procurement of Biobased Products Under Service and Construction Contracts.
- (xvi) 52.223-4, Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA- designated items.
- (xvii) 52.225-2, Buy American Certificate. This provision applies to solicitations containing the clause at 52.225-1.
- (xviii) 52.225-4, Buy American--Free Trade Agreements--Israeli Trade Act Certificate. (Basic, Alternates I, II, and III.) This provision applies to solicitations containing the clause at 52.225-3.
- (A) If the acquisition value is less than \$25,000, the basic provision applies.
- (B) If the acquisition value is \$25,000 or more but is less than \$50,000, the provision with its Alternate I applies.
- (C) If the acquisition value is \$50,000 or more but is less than \$77,533, the provision with its Alternate II applies.
- (D) If the acquisition value is \$79,507 or more but is less than \$100,000, the provision with its Alternate III applies.
- (xix) 52.225-6, Trade Agreements Certificate. This provision applies to solicitations containing the clause at 52.225-5.
- (xx) 52.225-20, Prohibition on Conducting Restricted Business Operations in Sudan--Certification. This provision applies to all solicitations.
- (xxi) 52.225-25, Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran—Representation and Certification. This provision applies to all solicitations.
- (xxii) 52.226-2, Historically Black College or University and Minority Institution Representation. This provision applies to solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions.
- (2) The following representations or certifications are applicable as indicated by the Contracting Officer: N/A (i) 52.204-17, Ownership or Control of Offeror.

N/A (ii) 52.204-20, Predecessor of Offeror.

N/A (iii) 52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products.

<u>N/A</u> (iv) 52.222-48, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Certification.

<u>N/A</u> (v) 52.222-52 Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services--Certification.

<u>N/A</u> (vi) 52.223-9, with its Alternate I, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (Alternate I only).

N/A (vii) 52.227-6, Royalty Information.

N/(A) Basic.

N/A (B) Alternate I.

N/A (viii) 52.227-15, Representation of Limited Rights Data and Restricted Computer Software.

(d) The offeror has completed the annual representations and certifications electronically via the SAM Web site accessed through <a href="https://www.acquisition.gov">https://www.acquisition.gov</a>. After reviewing the SAM database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [offeror to insert changes, identifying change by clause number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR Clause	Title	Date	Change

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on SAM.

# 52.209-7 - Information Regarding Responsibility Matters (Jul 2013)

(a) *Definitions*. As used in this provision—

"Administrative proceeding" means a non-judicial process that is adjudicatory in nature in order to make a determination of fault or liability (*e.g.*, Securities and Exchange Commission Administrative Proceedings, Civilian Board of Contract Appeals Proceedings, and Armed Services Board of Contract Appeals Proceedings). This includes administrative proceeding at the Federal and State level but only in connection with performance of a Federal contract or grant. It does not include agency actions such as contract audits, site visits, corrective plans, or inspection of deliverables.

- "Federal contracts and grants with total value greater than \$10,000,000" means—
- (1) The total value of all current, active contracts and grants, including all priced options; and
- (2) The total value of all current, active orders including all priced options under indefinite-delivery, indefinite-quantity, 8(a), or requirements contracts (including task and delivery and multiple-award Schedules).
- "Principal" means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a division or business segment; and similar positions).
- (b) The offeror [\_] has [\_] does not have current active Federal contracts and grants with total value greater than \$10,000,000.
- (c) If the offeror checked "has" in paragraph (b) of this provision, the offeror represents, by submission of this offer, that the information it has entered in the Federal Awardee Performance and Integrity Information

System (FAPIIS) is current, accurate, and complete as of the date of submission of this offer with regard to the following information:

- (1) Whether the offeror, and/or any of its principals, has or has not, within the last five years, in connection with the award to or performance by the offeror of a Federal contract or grant, been the subject of a proceeding, at the Federal or State level that resulted in any of the following dispositions:
- (i) In a criminal proceeding, a conviction.
- (ii) In a civil proceeding, a finding of fault and liability that results in the payment of a monetary fine, penalty, reimbursement, restitution, or damages of \$5,000 or more.
- (iii) In an administrative proceeding, a finding of fault and liability that results in—
- (A) The payment of a monetary fine or penalty of \$5,000 or more; or
- (B) The payment of a reimbursement, restitution, or damages in excess of \$100,000.
- (iv) In a criminal, civil, or administrative proceeding, a disposition of the matter by consent or compromise with an acknowledgment of fault by the Contractor if the proceeding could have led to any of the outcomes specified in paragraphs (c)(1)(i), (c)(1)(ii), or (c)(1)(iii) of this provision.
- (2) If the offeror has been involved in the last five years in any of the occurrences listed in (c)(1) of this provision, whether the offeror has provided the requested information with regard to each occurrence.
- (d) The offeror shall post the information in paragraphs (c)(1)(i) through (c)(1)(iv) of this provision in FAPIIS as required through maintaining an active registration in the System for Award Management database via <a href="https://www.acquisition.gov">https://www.acquisition.gov</a> (see 52.204-7).

# 52.209-12 - Certification Regarding Tax Matters (Feb 2016)

- (a) This provision implements section 523 of Division B of the Consolidated and Further Continuing Appropriations Act, 2015 (Pub. L. 113-235), and similar provisions, if contained in subsequent appropriations acts.
- (b) If the Offeror is proposing a total contract price that will exceed \$5,000,000 (including option), the Offeror shall certify that, to the best of its knowledge and belief, it—
- (1) Has [] filed all Federal tax returns required during the three years preceding the certification;
- (2) Has not [] been convicted of a criminal offense under the Internal Revenue Code of 1986; and
- (3) Has not [], more than 90 days prior to certification, been notified of any unpaid Federal tax assessment for which the liability remains unsatisfied, unless the assessment is the subject of an installment agreement or offer in compromise that has been approved by the Internal Revenue Service and is not in default, or the assessment is the subject of a non-frivolous administrative or judicial proceeding.

# 52.225-10 - Notice of Buy American Act Requirement - Construction Materials (May 2014)

- (A) *Definitions*. "Commercially available off-the-shelf (COTS) item," "construction material," "domestic construction material," and "foreign construction material," as used in this provision, are defined in the clause of this solicitation entitled "Buy American Act--Construction Materials" (Federal Acquisition Regulation (FAR) clause 52.225-9).
- (B) *Requests for determinations of inapplicability*. An offeror requesting a determination regarding the inapplicability of the Buy American statute shall submit the request with its offer, including the information and applicable supporting data required by paragraphs (c) and (d) of the clause at FAR 52.225-9.
- (C) Evaluation of offers.
- (1) The Government will evaluate an offer requesting exception to the requirements of the Buy American Act, based on claimed unreasonable cost of domestic construction material, by adding to the offered price the appropriate percentage of the cost of such foreign construction material, as specified in paragraph (b)(3)(i) of the clause at FAR 52.225-9.
- (2) If evaluation results in a tie between an offeror that requested the substitution of foreign construction material based on unreasonable cost and an offeror that did not request an exception, the Contracting Officer will award to the offeror that did not request an exception based on

unreasonable cost.

- (D) Alternate offers.
- (1) When an offer includes foreign construction material not listed by the Government in this solicitation in paragraph (b)(2) of the clause at FAR 52.225-9, the offeror also may submit an alternate offer based on use of equivalent domestic construction material.
- (2) If an alternate offer is submitted, the offeror shall submit a separate Standard Form 1442 for the alternate offer, and a separate price comparison table prepared in accordance with paragraphs (c) and (d) of the clause at FAR 52.225-9 for the offer that is based on the use of any foreign construction material for which the Government has not yet determined an exception applies.
- (3) If the Government determines that a particular exception requested in accordance with paragraph (c) of the clause at FAR 52.225-9 does not apply, the Government will evaluate only those offers based on use of the equivalent domestic construction material, and the offeror shall be required to furnish such domestic construction material. An offer based on use of the foreign construction material for which an exception was requested—
- (i) Will be rejected as nonresponsive if this acquisition is conducted by sealed bidding; or
- (ii) May be accepted if revised during negotiations.

# 52.225-12 - Notice of Buy American Requirement-Construction Materials Under Trade Agreements, Alternates I (May 2014) and Alternates II (Jun 2009) (Applicable to a TO valued at \$7,358,000 or more, but less than \$10,079,365)

- (a) *Definitions*. "Commercially available off-the-shelf (COTS) item," "construction material," "designated country construction material," "domestic construction material," and "foreign construction material," "Bahrainian, Mexican, or Omani construction material", as used in this provision, are defined in the clause of this solicitation entitled "Buy American--Construction Materials Under Trade Agreements" (Federal Acquisition Regulation (FAR) clause 52.225-11).
- (b) *Requests for determination of inapplicability*. An offeror requesting a determination regarding the inapplicability of the Buy American statute shall submit the request with its offer, including the information and applicable supporting data required by paragraphs (c) and (d) of FAR clause 52.225-11. (c) *Evaluation of offers*.
- (1) The Government will evaluate an offer requesting exception to the requirements of the Buy American statute, based on claimed unreasonable cost of domestic construction materials, by adding to the offered price the appropriate percentage of the cost of such foreign construction material, as specified in paragraph (b)(4)(i) of FAR clause 52.225-11.
- (2) If evaluation results in a tie between an offeror that requested the substitution of foreign construction material based on unreasonable cost and an offeror that did not request an exception, the Contracting Officer will award to the offeror that did not request an exception based on unreasonable cost.
- (d) Alternate offers.
- (1) When an offer includes foreign construction material, except foreign construction material from a designated country other than Bahrain, Mexico, or Oman that is not listed by the Government in this solicitation in paragraph (b)(3) of FAR clause 52.225-11, the offeror also may submit an alternate offer based on use of equivalent domestic or designated country construction material other than Bahrainian, Mexican, or Omani construction material.
- (2) If an alternate offer is submitted, the offeror shall submit a separate Standard Form 1442 for the alternate offer, and a separate price comparison table prepared in accordance with paragraphs (c) and (d) of FAR clause 52.225-11 for the offer that is based on the use of any foreign construction material for which the Government has not yet determined an exception applies.
- (3) If the Government determines that a particular exception requested in accordance with paragraph (c) of FAR clause 52.225-11 does not apply, the Government will evaluate only those offers based on use of the equivalent domestic or designated country construction material other than Bahrainian, Mexican, or Omani

construction material. An offer based on use of the foreign construction material for which an exception was requested--

- (i) Will be rejected as nonresponsive if this acquisition is conducted by sealed bidding; or
- (ii) May be accepted if revised during negotiations.

# 52.225-12 Notice of Buy American Requirement - Construction Materials Under Trade Agreements (May 2014) and Alternate I (May 2014) (Applicable to a TO valued at \$10,079,365 or more)

- (a) *Definitions*. "Commercially available off-the-shelf (COTS) item," "construction material," "designated country construction material," "domestic construction material," and "foreign construction material," as used in this provision, are defined in the clause of this solicitation entitled "Buy American—Construction Materials Under Trade Agreements" (Federal Acquisition Regulation (FAR) clause <u>52.225-11</u>).
- (b) *Requests for determination of inapplicability*. An offeror requesting a determination regarding the inapplicability of the Buy American statute shall submit the request with its offer, including the information and applicable supporting data required by paragraphs (c) and (d) of FAR clause <u>52.225-11</u>.
- (c) Evaluation of offers.
- (1) The Government will evaluate an offer requesting exception to the requirements of the Buy American statute, based on claimed unreasonable cost of domestic construction materials, by adding to the offered price the appropriate percentage of the cost of such foreign construction material, as specified in paragraph (b)(4)(i) of clause 52.225-11.
- (2) If evaluation results in a tie between an offeror that requested the substitution of foreign construction material based on unreasonable cost and an offeror that did not request an exception, the Contracting Officer will award to the offeror that did not request an exception based on unreasonable cost.
- (d) Alternate offers.
- (1) When an offer includes foreign construction material, other than designated country construction material, that is not listed by the Government in this solicitation in paragraph (b)(3) of FAR clause <u>52.225-11</u>, the offeror also may submit an alternate offer based on use of equivalent domestic or designated country construction material.
- (2) If an alternate offer is submitted, the offeror shall submit a separate <u>Standard Form 1442</u> for the alternate offer, and a separate price comparison table prepared in accordance with paragraphs (c) and (d) of FAR clause 52.225-11 for the offer that is based on the use of any foreign construction material for which the Government has not yet determined an exception applies.
- (3) If the Government determines that a particular exception requested in accordance with paragraph (c) of FAR clause 52.225-11 does not apply, the Government will evaluate only those offers based on use of the equivalent domestic or designated country construction material, and the offeror shall be required to furnish such domestic or designated country construction material. An offer based on use of the foreign construction material for which an exception was requested—
- (i) Will be rejected as nonresponsive if this acquisition is conducted by sealed bidding; or
- (ii) May be accepted if revised during negotiations.

# 3052.219-72 Evaluation of Prime Contractor Participation in the DHS Mentor Protégé Program (Jun 2006)

This solicitation contains a source selection factor or subfactor regarding participation in the DHS Mentor-Protégé Program. In order to receive credit under the source selection factor or subfactor, the offeror shall provide a signed letter of mentor-protégé agreement approval from the DHS Office of Small Business and Disadvantaged Business Utilization (OSDBU) before initial evaluation of proposals. The contracting officer

may, in his or her discretion, give credit for approvals that occur after initial evaluation of proposals, but before final evaluation.

[END OF SECTION K]

# Section L - Instructions, Conditions and Notices to Offerors and Respondents

#### **General Instructions to Offerors**

Questions and Amendments: All questions or concerns regarding any aspect of this solicitation shall be submitted electronically to <a href="mailto:BorderWallDesignBuild@cbp.dhs.gov">BorderWallDesignBuild@cbp.dhs.gov</a> no later than 4 PM EST on March 22, 2017. Questions received after this date and time may not be responded to by the Government. All emails with questions shall be clearly labeled in the subject line of the email with the RFP number: **HSBP1017R0023.** 

Offerors shall clearly identify the specific section of the solicitation to which each question relates when submitting questions. Reference should be made to the solicitation Section Heading, page number of the solicitation, and specific location on the page (e.g., third paragraph) in order to facilitate the Government's response to each question. Questions shall be submitted in a Microsoft Excel file following a format similar to the table below:

Table L.1 – Questions Format			
Question No.	Reference	Question Category	Question
#	Solicitation or Attachments, and Section	Contract or Technical	Question

Responses to submitted questions will be provided to all Offerors via an Amendment to this solicitation through FedBizOpps.

If Amendments to the solicitation are issued, all Offerors must acknowledge the Amendments by signing the accompanying Standard Form 30 and returning the signed Standard Form 30 for all Amendments issued with the Offeror's proposal submission. Failure to acknowledge all Amendments issued by the Government may result in the proposal submitted in response to the solicitation being found non-responsive by the Government.

# **Alternate Proposals**

Alternate Proposals will not be accepted in response to this solicitation.

#### **Errors, Omissions or Ambiguities**

If an Offeror believes the solicitation, including the instructions to Offerors, contains an error, omission or ambiguity, or is otherwise unsound, the Offeror shall immediately notify the Contract Specialist and Contracting Officer in writing with supporting rationale.

#### **Anticipated Contract Award**

The Government intends to award multiple Firm-Fixed Price IDIQ Contracts with Initial Task Orders (Prototypes) resulting from this solicitation. The IDIQ period of performance (ordering period) will be for a five-year period. Task Order periods of performance under the IDIQ contracts may end up to five (5) years after the expiration of the IDIQ.

# **Contract Ceiling Limitation**

The contract ceiling to be shared amongst all IDIQ awardees shall not exceed \$300,000,000. The ceiling may not be equally distributed among all IDIQ awardees.

#### **False Statements in Offers**

Offerors must provide full, accurate and complete information as required by this solicitation and its attachments. The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

#### **Authorized Personnel**

The Offeror shall provide the name, title, address, e-mail and phone number of the company representative(s) who can obligate the Offeror contractually. Also, the Offeror shall identify the individual(s) authorized to negotiate with the Government by providing the name, title, address, e-mail, and phone number of the individual(s).

# Joint Ventures and Subcontractors – Proposal Requirements

<u>Joint Ventures</u>: A joint venture is defined as a legal business entity formed between two or more companies (parties) to undertake the performance activities of a contract together. This does not include other arrangements, such as "teaming agreements" or "strategic alliances", which are not recognized as bona fide joint ventures for the purposes of this solicitation.

Offerors proposing as joint ventures shall provide evidence that the joint venture as a legal entity has been duly formed. Joint ventures shall include a copy of the legal joint venture agreement signed by an authorized officer from each of the firms comprising the joint venture with the chief executive of each entity identified. The Government will not evaluate the capability of any firms that are not included in the joint venture agreement.

If submitting a proposal as a joint venture, the experience and past performance of each joint venture partner can be submitted for the joint venture entity. The experience for each joint venture partner will be considered the experience of the joint venture entity. Page and project form limits apply to the joint venture as a whole, i.e., a submission limitation of three (3) projects under the experience factor is not an allowance of three (3) projects for each of the joint venture partners.

Prospective offerors that submit proposals may not change their firm (including Letter of Commitment (LOCs) and proposed sub-contractors) or their joint venture firms, if selected for award. If the joint venture changes after award, the offeror must immediately notify the Contracting Officer's for an assessment of contractual impact.

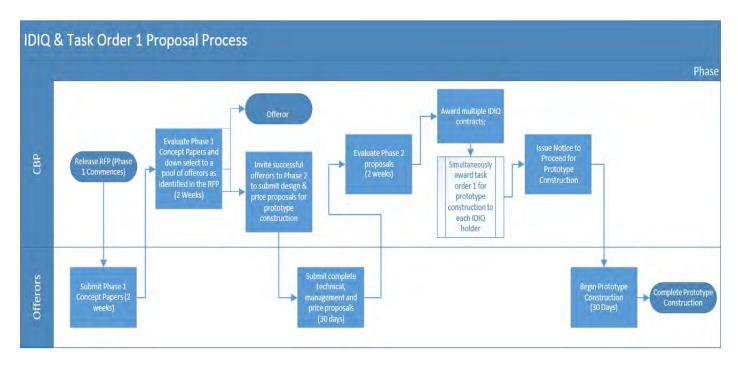
<u>Subcontractors</u>: The Government recognizes that completion of a project is often a team effort. Therefore, if an offeror wishes to be credited with the experience and past performance of a subcontractor (i.e., a firm that is not a member of the joint venture), a firm, unequivocal letter of commitment signed by the subcontractor must be submitted. The letter of commitment must be submitted even if the firm is in some way related to a joint venture partner (for example, the subcontractor is a subsidiary of a joint venture partner, or a subsidiary of a firm to which a joint venture partner is also a subsidiary).

If such a letter of commitment is not submitted, the experience and past performance of subcontractor firms will not be considered.

If the offeror's proposal includes the use of subcontractors, the offeror may not change subcontractors without the Contracting Officer's approval. If the offeror proposes to change subcontractors or letters of commitment after award, the offeror may not change subcontractors or letters of commitment without the Contracting Officer's approval. Approval will not be given unless the Contracting Officer considers the proposed substitute to be equal in all respects to the originally proposed subcontractor and that the substitution is in the best interests of the Government.

Page and project form limits apply to the proposal submission as a whole, i.e., a submission limitation of three (3) projects under the experience factor is not an allowance of three (3) projects for the prime and its subcontractors, but reflect three (3) projects total for the prime as well as its subcontractors.

# PHASED EVALUATION PROCESS



This solicitation is a phased evaluation, with a mandatory down-select between Phase I submission and Phase II submission. Offerors shall only submit responses to Phase I submission criteria by the due date noted for Phase I submission of offers. Offerors shall NOT submit responses to Phase II submission criteria unless notified by the Government after Government evaluation of Phase I proposal submissions. Submitting responses to Phase II submission criteria with the initial Phase I submission may lead to disqualification of an Offeror's entire proposal.

# PHASE I – Concept Papers/Qualifications Statements

Phase I Submission Instructions

**Phase I Response Date:** Responses to Phase 1 – Concept Papers/Qualifications Statements shall be received no later than 4 PM on March 29, 2017 to the <u>BorderWallDesignBuild@cbp.dhs.gov</u>. Only soft copies will be received in response to the Phase I. All submissions shall be clearly labeled in the subject line of the email with the RFP number and Phase: **HSBP1017R0023, Phase I.** 

# **Written Proposal Submission Format**

All Phase I responses shall be submitted in electronic format to the following email address: <a href="mailto:BorderWallDesignBuild@cbp.dhs.gov">BorderWallDesignBuild@cbp.dhs.gov</a>. The papers/qualifications shall be submitted in electronic format using Microsoft Word 2003 (or higher versions when available) for text submissions and Excel 2003 (or higher versions when available) for spreadsheet submissions.

Submit only the electronic files specifically authorized and/or required for this phase. Do not submit excess information, to include audio-visual materials, electronic media, etc. All pages must be numbered.

PDF pages should be formatted to print on 8 ½ by 11 inch paper, unless another paper size is specifically authorized elsewhere in this section for a particular submission. Spreadsheets must fit to 11" x 14" or 11" x 17" paper size unless specifically authorized in this section for a particular submission. Do not use a font size smaller than 12, an unusual font style such as script, or condensed print for any submission. All page margins must be at least 1 inch wide, but may include headers and footers of the solicitation, project title and company.

Page limitations: One side of the paper is one page; and a page with information on both the front and back of a single sheet of paper will be counted as two pages. Pages furnished for organizational purposes only, such as a "Table of Contents" or divider tabs, are not included in the page limitation.

The Phase I concept paper/qualifications statement shall not exceed ten (10) pages in total. The completed Project Performance Survey and Summary Matrix are excluded from the 10 pages.

# Phase I Concept Papers/Request for Qualifications

The concept paper/qualifications should discuss the following (1-3) below:

# 1) Demonstrated Experience

The Offeror shall describe the Prime Offeror's and/or Major Subcontractors' experience leading and successfully completing several large projects (completed to at least 50% or more within the past 5 years) that included design against specific customer requirements, a broad range of structures including but not limited to walls of other than solid concrete, roads, deployment and construction in challenging areas similar to the border environment, while meeting or exceeding cost, schedule, and performance goals. The Government defines similar projects as projects which address border/perimeter security or constructed fortification for challenging environmental and operational constraints that are at minimum \$25 million dollars in size. However, the Government will consider project experience that may fall outside this definition, provided that the Offeror includes a rationale for the comparability. The Offeror shall also discuss its ability to be able to bond at a minimum value of \$200,000. The Offeror shall provide a point of contact (name, telephone number, and email address) in its paper for the one project discussed in this section that it believes best represents its performance as it relates to the scope of this project. The Offeror shall also ask the identified POC to complete a Project Performance Survey (see Attachment #8), which the Offeror shall submit with its concept paper. It is the Offeror's responsibility to submit a completed survey (by the POC) with its concept

paper. If an Offeror submits a concept paper without a completed survey, the Government will consider the concept paper incomplete and will not consider it in the Phase I evaluation.

# 2) Management and Technical Competence

The Offeror shall identify key personnel with outstanding training, experience, and other qualifications; strong and credible assurance that those personnel will continue to be available throughout the period of performance, an outstanding and highly proactive program management approach with strong cost, schedule, and management controls; demonstrated experience in early identification and resolution of program variances; and outstanding technical approach with highly skilled technical personnel to support it. The extent to which the offeror has the skilled personnel and processes to perform a large and complex design and construction project shall be discussed. The offeror shall include descriptions of key personnel and their availability to support the project. The offeror shall also explain how it sets the project baseline, assesses status against the baseline, and addresses issues and variances. The offeror shall describe its ability to meet the Government's schedule requirements for the prototype construction. The offer shall outline the skills and competencies of staff who are available to support the technical and management activities of the project.

# 3) Prototype Concept Approach

The Offeror shall discuss and present the Offeror's proposed design and construction concept for the "Other Border Wall Prototype", consisting of technical approach narratives and information regarding the material and system quality. This may include conceptual level presentation drawings. Prototypes constructed in response to this solicitation must offer designs that are alternatives to reinforced solid concrete walls (i.e. no solid concrete external faces). The response must clearly define the proposed scope and quality levels that the design-build team is offering to the Government in enough detail for the Government and the Offeror to mutually understand whether or not the proposal meets or exceeds the minimum solicitation requirements for the "Other Border Wall Prototype". Fully developed drawings, details or specifications are not desired or required. The Offeror shall describe how its proposed design and construction concept for the "Other Border Wall Prototype" accommodates the specific requirements and needs of the border environment.

The Government has prepared a set of exemplar questions to be considered during proposal review. These exemplars are not designed to be all-inclusive, but are intended to assist offerors in better understanding certain areas of focus. In drafting Sections L and M of this RFP, the Government has intended to synthesize the spirit and intent of questions like these:

- Describe how your proposed border wall design meets or exceeds CBP's performance requirements for the border wall prototype design (e.g. 6 feet anti-dig/anti-tunnel)
- Describe your experience executing high profile, high visibility and politically contentious designbuild projects
- Describe your experience constructing tactical infrastructure (e.g. fencing, roads, drainage, lights, etc.) on the southwest border
- Describe your design-build experience constructing projects in challenging (e.g. steep slopes up to 45 degrees) and or inaccessible terrain on the southwest border.
- Describe your dollar threshold experience with large design-build contracts efforts what was the minimum/maximum?
- Describe your experience working on projects that involved a large number of federal, state and local stakeholders

- Describe your past performance (i.e. how your customer would rate you) on completing similarly sized programs and projects from a cost (original award; final cost) and schedule perspective (have you had to pay liquidated damages?)
- Describe potential project risks and your mitigation strategies- project risks mitigation strategy building wall along the southwest border
- Describe how you propose to keep costs low while still meeting CBP's performance requirements.
- Describe the qualifications, experience and time availability of your key personnel- describe your successful ability to recruit and maintain staffing strategy in remote areas throughout the southwest border
- Describe design-build team's experience working together.

Where the offeror makes assertions about capabilities, experience, and skill, the concept paper shall include substantiating evidence so that the Government can assess the credibility and likelihood of those assertions. Examples of past design and construction work, or of existing or contemplated designs, that might bear on this effort could be one type of useful substantiating evidence for some elements.

Offerors are strongly encouraged to create a matrix to show how elements of the proposal address the Government's Statement of Work, Proposal Instructions, and Evaluation Approach. Offerors may attach a summary matrix not to exceed two pages to their Phase I proposal; these two pages will NOT count against the concept proposal page limit.

#### PHASE I DOWN-SELECT

After the Government completes its Phase I evaluation, the Government will perform a down-select of Phase I concept papers/qualifications and request Phase II submissions from only those Offerors who are deemed to be most highly qualified. The Government intends to invite up to twenty (20) Offerors from among those who submitted Phase I papers/qualifications into the Phase II proposal and evaluation process. This means that every Offeror who submits a Phase I concept paper/qualifications would not be able to participate in Phase II. Only the Offerors with the most highly rated Phase I concept papers/qualifications will be included in the down-select and will be notified accordingly. Offerors not included in the down-select will be notified by the Government separately and will have an opportunity to be debriefed in accordance with FAR Section 15.505.

# PHASE II – Request for Proposals

**Phase II Submission Instructions** 

**Phase II Response Date:** Responses to Phase II – Request for Proposals shall be received no later than (date and time to be determined) to the <a href="mailto:BorderWallDesignBuild@cbp.dhs.gov">BorderWallDesignBuild@cbp.dhs.gov</a>. Only soft copies will be received in response to Phase II. All submissions shall be clearly labeled in the subject line of the email with the RFP number and Phase: **HSBP1017R0023, Phase II.** 

Each Offeror's proposal submitted in response to this solicitation shall be prepared in five volumes as defined below. Each of the parts shall be separate and complete in itself so that evaluation of one may be accomplished independently from evaluation of the other.

Offerors must submit initial proposals that are fully responsive to the Government's requirements and that clearly demonstrate the Offeror's capabilities and approach to meeting the requirements.

Offerors shall prepare proposals and provide all required information in accordance with the following chart and subsequent instructions included herein. Elaborate brochures or documentation, binding, detailed artwork, or other embellishments are unnecessary and will be discarded if submitted as part of the Offeror's proposal. Failure of a proposal to comply with these instructions may be grounds for exclusion of the proposal from further consideration.

Volume I	Volume Title Price/Business	<b>Soft/Hard Copies</b> 1/None	<b>Page Limit</b> No Limit
II	Technical/Management	1/None	20
III	Other Border Wall Prototype Design	1/None	10
IV	Past Performance	1/None	1 (plus PPQs)
V	Subcontracting Plan	1/None	No Limit

**Page Limitations:** Page limitations shall be treated as maximums. If exceeded, the excess pages will not be evaluated. Instead, they will be removed and retained in the solicitation file. Each page shall be counted except for the following:

Cover Pages
Tables of Contents
Glossaries
Acronym List
Requirements Traceability Matrix
Titled Tab Pages
Resumes of Key Personnel
Sample Reports
Staffing Tables and Matrices
Preliminary Sector Transportation Plans

**Cross Referencing:** Each volume shall be written on a stand-alone basis so that its contents may be evaluated with a minimum of cross referencing to other volumes of the proposal.

**Indexing:** Each volume shall contain a detailed Table of Contents to delineate the contents within the volume.

**Glossary of Abbreviations and Acronyms:** If abbreviations and acronyms are used in Volume II - Technical & Management, include a glossary that contains a listing of all abbreviations and acronyms used with an explanation for each.

Page Size and Format: Text shall be single-spaced, on 8 1/2 x 11 inch paper (except as specifically noted), with a minimum one-inch margin all around. Pages shall be numbered consecutively. 11" x 17" sized fold-out pages may be used for tables, charts, graphs, or pictures that cannot be legibly presented on 8 ½" x 11" paper. An 11" x 17" printed on one side is a two sheet equivalent (with regards to the page count limitations). Print shall be of a minimum 12-point font size or a maximum 10 characters per inch (10-pitch, pica) spacing.

Bolding, underlining, and italics may be used to identify topic demarcations or points of emphasis. Graphic presentations, including tables, while not subject to the same font size and spacing requirements, shall have spacing and text that is easily readable.

**Tabbing:** Offerors shall separate all Tabs and sections within the Price and Technical & Management Volumes with a titled cut sheet.

Failure of a proposal to comply with these instructions may be grounds for exclusion of the proposal from further consideration.

**Signed Proposal:** The Standard Form 1442, Solicitation, Offer and Award (Construction, Alteration, or Repair), is being used for this solicitation. This form is used by the Government as a Request for Proposal and upon submission by the offeror it becomes the offeror's proposal. As such, it is an "offer" which can be unilaterally accepted by the Contracting Officer and awarded on said SF 1442. The Contractor's offer and the Government's acceptance form the contract. Therefore, the following points must be strictly adhered to by the offeror in submitting the proposal:

- (a) One (1) originally executed copy of Standard Form 1442 (with Blocks 14 through 30 completed), and Section K fully executed, shall be submitted.
- (b) The SF 1442 must be executed by a representative of the offeror authorized to commit the offeror to contractual obligations. The authority to sign a proposal, but not an offer, subject to unilateral acceptance and award, is not sufficient authorization to sign the SF 1442.
- (c) UNDER NO CIRCUMSTANCES SHOULD OFFERORS MAKE ALTERATIONS OR CHANGES TO THE SF 1442 OR THE RELATED PAGES WHICH ARE A PART OF THE ENCLOSED REQUEST FOR PROPOSAL AND PROPOSAL PACKET.

Offerors are to complete those parts that require items such as prices, place of performance, etc., when such items are called for in the enclosed request for proposal. A place is provided to insert such information.

#### **VOLUME I: PRICE/BUSINESS PROPOSAL [Phase II]**

- 1) **Proposal Form 1442:** Offerors are required to complete and submit Standard Form 1442 as part of its proposal along with any amendment receipt acknowledgement(s).
- 2) TAB A Schedule B: Offerors shall complete Section B of the RFP AND submit a complete price breakdown for the prototype project per Attachment #2 (Supporting Price Details Spreadsheet), which will be the basis for price evaluation for the IDIQ and initial Task Order.

Additionally, the Offeror shall submit a one (1) page rationale that describes the Offeror's perceived trade-offs between its proposed approach for the prototype and its proposed price for the prototype. Trade-offs may describe how the proposed "Other Border Wall Prototype" solution justifies the price premium or better satisfies the mission and operational needs.

**3) TAB B - Bid Guarantee:** Offerors shall include their bid guarantee in this tab of the Price/Business Proposal.

**4) TAB C – Joint Venture Agreement (as applicable):** Offerors proposing as joint ventures shall include a copy of their legal joint venture agreement signed by an authorized officer from each of the firms comprising the joint venture with the chief executive of each entity identified.

**Cost or Pricing Data:** Offerors are not required to submit certified cost or pricing data. Full and open competition is expected which will be used to determine fairness and reasonableness of proposed pricing. Prices will be compared on a Contract Line Item Number (CLIN) and/or total basis. However, Offerors may be requested to provide additional information in the event costs appear over-stated or under-stated.

#### **VOLUME II: TECHNICAL & MANAGEMENT**

This volume must not contain any reference to price; however, resource information (such as data concerning labor hours and categories, materials, subcontracts, etc.) must be contained in the technical proposal so that the offeror's understanding of the requirements may be evaluated.

The Technical & Management Volume shall be prepared in such a manner as to enable the Government reviewers to make a thorough evaluation and arrive at a sound determination of whether the proposal meets all technical requirements of the solicitation. To this end, the Technical & Management Proposal should be sufficiently specific, detailed, and complete as to clearly and fully demonstrate that the offeror has a thorough understanding of the requirements set forth in the solicitation. Statements by an offeror that merely offer to perform in accordance with the Government's requirements or which merely paraphrase the requirements document(s), or use phrases such as, "standard engineering practices will be employed," or "well established techniques will be employed," etc. may be considered non-compliant and ineligible for award.

The Technical & Management Volume shall not exceed 20 pages (excluding the transmittal letter).

This volume shall also include the following:

1) Transmittal Letter: A letter that formally transmits the technical proposal and states in general terms how the offeror meets the solicitation requirements. This letter shall not exceed two (2) pages, which shall not count against the total number of pages authorized for the Technical and Management Volume.

# 2) Tab A: Technical and Management Plan (15 pages total)

- **A-1:** The Offeror shall describe how the Offeror's management approach will meet the Government's requirements outlined in the IDIQ Statement of Work for managing technical and management approach in the areas of execution, quality control, program controls, and management capability to simultaneously perform multiple wall construction contracts in both remote and urban environments, under varied environmental conditions, along the southwest border. This should clearly identify major subcontractors and the roles and responsibilities of major subcontractors related to the overall proposed technical and management plan.
- **A-2:** The Offeror shall describe how the Offeror will manage the construction of the "Other Border Wall Prototype" under the initial Task Order to include the following: number and composition of work crews by phase, coordination and control of work crews, material transportation, delivery and staging, pre-fabrication strategy, production management, coordination of construction with on-going design efforts, quality control processes, and types of equipment to be used to perform work.
- **A-3:** The Offeror shall provide a detailed schedule showing key activities and milestones, including critical path. The Offeror shall provide a plan for streamlining design and construction and managing

labor and other resources to reduce costs and achieve an aggressive schedule. The Offeror shall discuss the Offeror's internal process for handling delays to minimize "schedule creep."

**A-4:** The Offeror shall describe how the Offeror will address security under performance of any resultant IDIQ and task orders.

**A-5:** The Offeror shall describe any technical and management innovations it is proposing to implement which are focused on quality improvement, cost reduction, schedule efficiencies, and increasing the security of the wall under performance of a resultant IDIQ award.

# 3) TAB B - Bonding Capacity (2 pages)

Provide substantiating evidence from a federally approved surety indicating that the Offeror (prime contractor only) has the ability to bond for the full value of the offeror's prototype. The offeror must submit a letter of commitment from a surety, signed by an officer or agent authorized to bond, that identifies the offeror's available bonding capacity and limits that the surety will bond the Offeror, as the successful awardee for this project, taking into consideration the Cost Ceiling Limitation described in this Solicitation. If the Offeror submits evidence from an individual Surety, the individual surety must include documentation meeting the requirements of FAR 28.203 and contract clause 52.228-11.

Offerors should note that additional bonding requirements may be required on subsequent task orders under the resultant IDIQ contract. See Section H clause "Ordering Procedures" for additional information.

If an informal teaming agreement is in place, the small business offeror with the DUNS number provided on the proposal must possess the bonding capacity. If an SBA approved Joint Venture, then the bonding capacity of the mentor can be used per current SBA rules. The teaming agreement must be provided if an informal teaming arrangement, or the SBA approval and CCR register if an SBA approved joint venture.

A list of federally approved sureties can be found at the following website:

https://www.fiscal.treasury.gov/fsreports/ref/suretyBnd/c570 a-z.htm

# 4) Tab C - Resumes of Proposed Key Personnel (1 page per resume)

The Offeror shall submit the resume for all three (3) proposed Key Personnel in accordance with the RFP requirements (Section H and the Statement of Work (SOW)). The resumes shall demonstrate the technical competency of each proposed Key Personnel to support the requirements of the scope and contractual obligations contained within this solicitation for that Key Personnel position.

**Technical and Management Oral Presentation:** See oral presentation instructions in "Phase 2 – Oral Presentation" below (30 minutes)

#### **VOLUME III: "OTHER BORDER WALL PROTOTYPE" DESIGN** (10 pages total)

The Offeror shall provide a 60% Preliminary Design Submittal for proposed "Other Border Wall Prototype" based upon the information made available in this RFP and any amendments thereto. Prototypes constructed in response to this solicitation must offer designs that are alternatives to reinforced solid concrete walls (i.e. no solid concrete external faces). The Preliminary Design Submittal shall be comprised of design narratives,

engineering drawings, and technical specifications. The Offeror shall also provide a 30-day build schedule for the proposed "Other Border Wall Prototype".

"Other Border Wall and Prototype Designs Oral Presentation: See oral presentation instructions in "Phase II – Oral Presentation" below (60 minutes total for "Other Border Wall Prototype").

**VOLUME IV: PAST PERFORMANCE** (not to exceed 1 PPQ per project submitted under Phase I – Demonstrated Experience; plus 1 page of POC information only (includes POCs for all PPQ projects))

The Offeror shall send Attachment #3 Past Performance Questionnaire to references associated with the projects submitted under Phase I - Demonstrated Experience, requesting that the Past Performance Questionnaire be completed (by the reference) and returned electronically via e-mail to <a href="mailto:BorderWallDesignBuild@cbp.dhs.gov">BorderWallDesignBuild@cbp.dhs.gov</a>. All submissions shall be clearly labeled in the subject line of the email with the RFP number, Phase, and Offeror's name: **HSBP1017R0023**, **Phase II**, [Offeror's Name].

Additionally as part of its Phase II proposal, the Offeror shall provide the Government one (1) page that contains the Point of Contact (POC) information for each project cited in its submission in response to Phase I - Demonstrated Experience. The provided POC information shall include the project title, the full name of the POC, the POC's company, the POC's title, and the POC's e-mail and phone number). The Government reserves the right to contact identified POCs to discuss the Past Performance Questionnaire submitted by that POC as well as to request additional information or clarifications. The Government may also consider past performance reports available on other past performance databases, such as the Past Performance Information Retrieval System (PPIRS), the Construction Contractor Appraisal Support System (CCASS), and Contractor Performance Assessment Reporting System (CPARS), as part of its evaluation.

The past performance evaluation conducted in response to this submission for the Past Performance Factor is in addition to the Contracting Officer's Determination of Prospective Contractor Responsibility that will be conducted in accordance with FAR 9.1.

# **VOLUME V: SUBCONTRACTING PLAN** (no page limitation)

This requirement applies to large businesses only. Small businesses are EXEMPT from the requirement to submit Volume V: Subcontracting Plan.

Subcontracting Plan Requirements:

- (a) Describe the Prime's corporate commitment in providing subcontracting opportunities for small business (SB), small-disadvantaged business (SDB), women-owned small business (WOSB), HUBZone small business, and service disabled veteran-owned small businesses (SDVOSB). Describe the strength and specificity of each corporate commitment (i.e., what type of commitment, how binding is the commitment, how specific is the commitment to this proposed effort, and what types of tasks are included in these subcontracting opportunities).
- (b) Provide one year history demonstrating your corporate commitment to meet your subcontracting goals/targets by providing SF 294s, Subcontracting Report for Individual Contracts, for those contracts/projects which you are submitting under Past Performance. If goals were not met on the SF 294 then provide an explanation as to why the goals/targets were not met. This information will be used to determine proposal risk associated with the offeror's corporate commitment for small business goals.

- (c) Goals/Targets.
- (1) Describe how your subcontracting targets compare to the CBP goals (e.g. meets, exceeds, or does not meet).

SMALL BUSINESS	38%
SMALL DISADVANTAGED	5%
WOMAN OWNED	5%
HUBZONE	3%
SERVICE DISABLED VETERAN OWNED	3%

- (2) Describe how you will meet specific subcontracting percentages and goals for the CBP contracts expressed in dollars and in percentages of your total proposed subcontracting dollars for subcontracting to each category above. These goals may be met by any combination of subcontracts, other business teaming arrangements or vendor purchases and should make use of small businesses to the maximum extent practicable.
- (3) For the SDB Participation Program, provide your targets expressed as dollars and percentages of anticipated total contract value, in each of the applicable, authorized NAICS Industry Subsectors. For proposal purposes, provide your assumption of anticipated total contract value should you be awarded a contract. This SDB Participation Program target is a separate target that you propose for this program, pursuant to FAR 19.12.
- (d) Provide a Small Business Subcontracting Plan in accordance with FAR 19.7 using Attachment #4 (CBP Subcontracting Plan Template).
- (e) Provide the signed letter of mentor-protégé agreement approval from the DHS Office of Small Business and Disadvantaged Business Utilization (OSDBU).

# **Phase 2 - Oral Presentation**

- 1) Notification for Oral Presentation: The invitation to submit response to Phase 2 Request for Proposals will include the date and time of the Offeror's scheduled oral presentation, which will afford the Offeror at least ten (10) calendar days advance notice of the date, time and location of the Offeror's scheduled oral presentation. The oral presentation will be held in-person in the Washington, DC metropolitan area. Further details will be provided to the Offeror in the invitation. The order in which Offerors invited to submit a response to Phase 2 Request for Proposals are scheduled for oral presentations will be randomly selected by the Government.
- 2) Recording: The Government reserves the right to record the oral presentation.
- 3) Offeror Participants: The Offeror's participants in the oral presentations shall be limited to the Key Personnel proposed by the Offeror in the proposal submission, the responsible corporate official named in accordance with Section L "Authorized Personnel", and two additional participants of the Offeror's own choosing. No more than six (6) Offeror participants for the oral presentations are permitted.

No later than five (5) calendar days prior to the Offeror's scheduled oral presentation, the Offeror shall provide send the name, current employer/company, and e-mails of the Offeror Participants for the oral presentation to BorderWallDesignBuild@cbp.dhs.gov

4) Format for Oral Presentations: The Government intends for the oral presentation to proceed as follows:

Oral Presentation Portion	Oral Presentation Component	Total Time Allotment
roluoli	Transfer to the transfer to th	NT 4 'C' 1
1	Introduction and Oral Presentation Process and Expectations. The	Not specified
	Government will provide the Offeror a standard set of questions	
	related to technical and management capabilities.	
2	The Offeror shall caucus among themselves to prepare	30 minutes
	answers/responses and adjust its prepared oral presentation	
	accordingly.	
3	The Offeror shall present its proposed technical and management	45 minutes
	approach, including to the standard set of questions provided by	
	the Government.	
4	The Offeror shall present its proposed prototype designs for the	60 minutes
	"Other Border Wall Prototype"	
5	The Government will caucus to prepare clarifying questions	15 minutes
6	The Offeror will hear and respond to the Government's clarifying	15 minutes
	questions, if applicable.	

The Government will provide HDMI connection to a projector, white board, paper, and writing materials for the Offeror to use during oral presentations. Offerors can expect the presentation will be conducted in a conference room with a table of sufficient size to accommodate the participants, including the Government attendees.

With the exception of two computers (one as back-up) that do not have wifi/internet connectivity, the Offeror shall not bring any electronic devices, including additional computers, tablets or smart phones, into the oral presentation conference room.

The Offeror Participants shall not reach back, by telephone, e-mail or any other means, to any other personnel or persons for assistance during the oral presentation

5) <u>Intent of Oral Presentation</u>: The oral presentation is intended to explain the Offeror's written submission for the Technical and Management Volume and the "Other Border Wall Prototype" Design. The oral presentation shall not provide the Offeror any opportunity to revise or change the proposed technical or management volume or proposed prototype wall designs, and is therefore not construed to be discussions with the Offeror.

[End of Provision]

# 52.252-2 - Clauses Incorporated by Reference (Feb 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these addresses: <a href="http://farsite.hill.af.mil/vffara.htm">http://farsite.hill.af.mil/vffara.htm</a> and <a href="http://farsite.hill.af.mil/vffara.htm">http://farsite.hill.af.mil/vffara.htm</a>

- 52.204-7 System for Award Management (Oct 2016)
- 52.204-18 Commercial and Government Entity Code Maintenance (Jul 2016)
- 52.214-34 Submission of Offers in the English Language (Apr 1991)
- 52.214-35 Submission of Offers in U.S. Currency (Apr 1991)
- 52.215-1 Instructions to Offerors -- Competitive Acquisition (Jan 2017)
- 52.222-23 Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity for Construction (Feb 1999)

# **52.216-1 - Type of Contract (Apr 1984)**

The Government contemplates multiple Firm-Fixed Price IDIQ Contracts with Initial Task Orders (Prototypes) resulting from this solicitation.

# 52.222-5 - Construction Wage Rate Requirements—Secondary Site of the Work. (May 2014)

- (a) (1) The offeror shall notify the Government if the offeror intends to perform work at any secondary site of the work, as defined in paragraph (a)(1)(ii) of the FAR clause at 52.222-6, Construction Wage Rate Requirements, of this solicitation.
- (2) If the offeror is unsure if a planned work site satisfies the criteria for a secondary site of the work, the offeror shall request a determination from the Contracting Officer.
- (b) (1) If the wage determination provided by the Government for work at the primary site of the work is not applicable to the secondary site of the work, the offeror shall request a wage determination from the Contracting Officer.
- (2) The due date for receipt of offers will not be extended as a result of an offeror's request for a wage determination for a secondary site of the work.

# **52.228-1 - Bid Guarantee (Sep 1996)**

- (a) Failure to furnish a bid guarantee in the proper form and amount, by the time set for opening of bids, may be cause for rejection of the bid.
- (b) The bidder shall furnish a bid guarantee in the form of a firm commitment, *e.g.*, bid bond supported by good and sufficient surety or sureties acceptable to the Government, postal money order, certified check, cashier's check, irrevocable letter of credit, or, under Treasury Department regulations, certain bonds or notes of the United States. The Contracting Officer will return bid guarantees, other than bid bonds --
- (1) To unsuccessful bidders as soon as practicable after the opening of bids; and
- (2) To the successful bidder upon execution of contractual documents and bonds (including any necessary coinsurance or reinsurance agreements), as required by the bid as accepted.
- (c) The amount of the bid guarantee shall be 20% percent of the bid price or \$3,000,000.00, whichever is less.
- (d) If the successful bidder, upon acceptance of its bid by the Government within the period specified for acceptance, fails to execute all contractual documents or furnish executed bond(s) within 10 days after receipt of the forms by the bidder, the Contracting Officer may terminate the contract for default.
- (e) In the event the contract is terminated for default, the bidder is liable for any cost of acquiring the work that exceeds the amount of its bid, and the bid guarantee is available to offset the difference.

# **52.233-2 Service of Protest (Sep 2006)**

(a) Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with

an agency, and copies of any protests that are filed with the Government Accountability Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from:

Customs and Border Protection
Attn: Border Wall Contracting Officer, Solicitation HSBP1017R0023
1331 Pennsylvania Avenue, NW
National Place, Suite 1355
Washington DC, 20229
Emailed to: BorderWallDesignBuild@cbp.dhs.gov

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

# 3052.209-70 Prohibition on contracts with corporate expatriates (Jun 2006)

- (a) Prohibitions. Section 835 of the Homeland Security Act, 6 U.S.C. 395, prohibits the Department of Homeland Security from entering into any contract with a foreign incorporated entity which is treated as an inverted domestic corporation as defined in this clause, or with any subsidiary of such an entity. The Secretary shall waive the prohibition with respect to any specific contract if the Secretary determines that the waiver is required in the interest of national security. (b) Definitions. As used in this clause: *Expanded Affiliated Group* means an affiliated group as defined in section 1504(a) of the Internal Revenue Code of 1986 (without regard to section 1504(b) of such Code), except that section 1504 of such Code shall be applied by substituting `more than 50 percent' for `at least 80 percent' each place it appears. *Foreign Incorporated Entity* means any entity which is, or but for subsection (b) of section 835 of the Homeland Security Act, 6 U.S.C. 395, would be, treated as a foreign corporation for purposes of the Internal Revenue Code of 1986. *Inverted Domestic Corporation*. A foreign incorporated entity shall be
- (1) The entity completes the direct or indirect acquisition of substantially all of the properties held directly or indirectly by a domestic corporation or substantially all of the properties constituting a trade or business of a domestic partnership;

treated as an inverted domestic corporation if, pursuant to a plan (or a series of related transactions)—

- (2) After the acquisition at least 80 percent of the stock (by vote or value) of the entity is held—
- (i) In the case of an acquisition with respect to a domestic corporation, by former shareholders of the domestic corporation by reason of holding stock in the domestic corporation; or
- (ii) In the case of an acquisition with respect to a domestic partnership, by former partners of the domestic partnership by reason of holding a capital or profits interest in the domestic partnership; and
- (3) The expanded affiliated group which after the acquisition includes the entity does not have substantial business activities in the foreign country in which or under the law of which the entity is created or organized when compared to the total business activities of such expanded affiliated group. *Person, domestic, and foreign* have the meanings given such terms by paragraphs (1), (4), and (5) of section 7701(a) of the Internal Revenue Code of 1986, respectively.
- (c) Special rules. The following definitions and special rules shall apply when determining whether a foreign incorporated entity should be treated as an inverted domestic corporation.
- (1) *Certain stock disregarded.* For the purpose of treating a foreign incorporated entity as an inverted domestic corporation these shall not be taken into account in determining ownership:
- (i) Stock held by members of the expanded affiliated group which includes the foreign incorporated entity; or
- (ii) Stock of such entity which is sold in a public offering related to an acquisition described in section 835(b)(1) of the Homeland Security Act, 6 U.S.C. 395(b)(1).
- (2) Plan deemed in certain cases. If a foreign incorporated entity acquires directly or indirectly substantially all of the properties of a domestic corporation or partnership during the 4-year period beginning on the date which is 2 years before the ownership requirements of subsection (b)(2) are met, such actions shall be treated as pursuant to a plan.

- (3) Certain transfers disregarded. The transfer of properties or liabilities (including by contribution or distribution) shall be disregarded if such transfers are part of a plan a principal purpose of which is to avoid the purposes of this section.
- (d) Special rule for related partnerships. For purposes of applying section 835(b) of the Homeland Security Act, 6 U.S.C. 395(b) to the acquisition of a domestic partnership, except as provided in regulations, all domestic partnerships which are under common control (within the meaning of section 482 of the Internal Revenue Code of 1986) shall be treated as a partnership.
- (e) Treatment of Certain Rights.
- (1) Certain rights shall be treated as stocks to the extent necessary to reflect the present value of all equitable interests incident to the transaction, as follows: (i) warrants; (ii) options; (iii) contracts to acquire stock; (iv) convertible debt instruments; and (v) others similar interests.
- (2) Rights labeled as stocks shall not be treated as stocks whenever it is deemed appropriate to do so to reflect the present value of the transaction or to disregard transactions whose recognition would defeat the purpose of Section 835.
- (f) *Disclosure*. The offeror under this solicitation represents that [Check one]:
- \_\_\_\_ it is not a foreign incorporated entity that should be treated as an inverted domestic corporation pursuant to the criteria of (HSAR) 48 CFR 3009.108-7001 through 3009.108-7003;
- \_\_\_ it is a foreign incorporated entity that should be treated as an inverted domestic corporation pursuant to the criteria of (HSAR) 48 CFR 3009.108-7001 through 3009.108-7003, but it has submitted a request for waiver pursuant to 3009.108-7004, which has not been denied; or it is a foreign incorporated entity that should be treated as an inverted domestic corporation pursuant to the criteria of (HSAR) 48 CFR 3009.108-7001 through 3009.108-7003, but it plans to submit a request for waiver pursuant to 3009.108-7004.
- (g) A copy of the approved waiver, if a waiver has already been granted, or the waiver request, if a waiver has been applied for, shall be attached to the bid or proposal.

[END OF SECTION L]

#### Section M - Evaluation Factors for Award

# M.1 Multiple Awards:

The Government contemplates awarding multiple Indefinite Delivery Indefinite Quantity IDIQ contracts and prototype project(s) as the initial Task Order.

#### M.2 Source Selection Process:

The Government will evaluate each Offeror's concept paper/qualifications statement in its totality. This means that the Government will include in its down-select those concept papers whose approach best meets the Government's requirements, as evaluated, using the Phase I criteria set forth below. The outcome of this Phase I decision will determine those Offerors that will be invited to participate in Phase II. The Government will invite up to 20 Offerors to participate in Phase II.

For those offerors invited to participate in Phase II, the Government will evaluate each proposal in its totality. Similar to Phase I, this means that the Government will evaluate all Phase II proposals in accordance with the Phase II evaluation criteria set forth below. Multiple awards will be made to offerors whose Phase II proposal provide the best value to the Government.

The Government intends to evaluate proposals and award without further communication with Offerors. Therefore, the Offeror's submission for Phase I and Phase II, if invited, shall contain the Offeror's best terms. The Offeror shall assume that the Government has no prior knowledge of the Offeror's experience and that the Government will base its evaluation on the information presented in the Offeror's submission for Phase I and, if invited, for Phase II.

# M.3 Basis of Award:

These awards will be made in accordance with Federal Acquisition Regulation (FAR) 15.101-1 Best Value Trade-Off Process. Award(s) will be made to the offerors whose proposal the Source Selection Authority (SSA) determines conform to the solicitation, is fair and reasonable with regard to pricing for the prototype projects, and whose proposal offers the best overall value to the Government when considering price and the non-price factors described herein. The trade-off process could result in award to other than the lowest-priced Offeror or other than the Offeror rated highest on non-price factors.

# **M.4 Responsibility Determination:**

The Government will conduct a responsibility determination of Offerors prior to any prospective contract award according to FAR 9.104 – "Standards" using data listed on SAM.GOV, as well as other applicable sources. Offerors are encouraged to verify that the information listed on SAM.GOV is up to date and accurate.

# M. 5 Evaluation Factors and Relative Order of Importance:

The Government will evaluate qualifications (Phase I) and proposals (Phase II) based on the following evaluation factors and relative order of importance:

#### PHASE I

- ➤ Factor 1-1 Demonstrated Experience
- ➤ Factor 1-2 Management and Technical Competence

# ➤ Factor 1-3 – Prototype Concept Approach

Factor 1-3 is significantly more important than Factor 1-2. Factor 1-2 is more important than Factor 1-1.

# PHASE II

- Factor 2-1 Technical and Management Capability
- Factor 2-2 Feasibility and Fit of the Prototype Wall Design
- ➤ Factor 2-3 Past Performance
- ➤ Factor 2-4 Small Business Subcontracting Plan
- ➤ Factor 2-5 Price

Factor 2-2 is significantly more important than either Factors 2-1, 2-3, or 2-4 individually. Factor 2-1 is more important than Factor 2-3. Factor 2-3 is more important than Factor 2-4. All non-price evaluation factors, when combined, are significantly more important than the price.

As the non-price merits of competing Offerors' proposals approach equal, Factor 2-5 will become more important in the best value trade-off decision.

Small Businesses will be evaluated based on Factor 2-1, 2-2, 2-3, and 2-5. For Factor 2-4, Small Businesses will not be assigned a rating by the Government.

#### M.6 Evaluation Approach

# PHASE I

# **Factor 1-1 – Demonstrated Experience**

Evaluated based on evidence that the offeror has the demonstrated capability successfully to complete major design and construction projects of the large scope ultimately anticipated for the border wall. As part of this Factor, the Government will assess the offeror's Specialized Experience and will consider the offeror's past performance.

Evaluated the extent to which the offeror has experience with large construction projects, and how well the contractor performed on those efforts and to the extent that the contractor's financial viability, including the contractor's ability to obtain adequate bonding for large construction projects. Offeror's who provide strong substantiating evidence of experience, past performance, and financial viability will rank higher than offeror's who have weak or unsubstantiated claims. Based on the contractor's past experience, past performance, and financial viability, the Government will assess the likelihood that the offeror would successfully complete the project.

A highly confident offeror will have characteristics including, but not necessarily limited to, experience leading and successfully completing several very large projects that included design against specific customer requirements, a broad range of structures including but not limited to walls of other than solid concrete, and roads, deployment and construction in challenging areas similar to the border environment, while meeting or exceeding cost, schedule, and performance goals. Further, a highly confident offeror will have provided

highly convincing justification to validate the claims and assertions in the proposal and will show financial viability and bonding appropriate to very large construction projects.

Offerors must demonstrate that they have the ability to bond for a minimum value of \$200,000. Offerors unable to meet this requirement will receive a low confidence rating and will be eliminated from further consideration.

# **Factor 1-2 – Management and Technical Competence**

Evaluated for evidence that the offeror has the technical and management skills necessary to lead and complete a complex design and construction effort of this nature.

Within this Factor, the Government will assess the extent to which the offeror identifies and commits key personnel with appropriate experience and qualifications. The Government will evaluate the offeror's program management approach and assess the extent to which it will help increase the likelihood of completing the task on or ahead of cost, schedule, and performance goals. The Government will review the offeror's proposed technical approach, as well as the capability of the contractor's management and technical staff. The Government will determine its confidence that the contractors personnel and management control system will contribute to risk of program failure or likelihood of success.

A highly confident offer will have characteristics including, but not necessarily limited to, identification of key personnel with outstanding training, experience, and other qualifications; strong and credible assurance that those personnel will continue to be available throughout the period of performance, an outstanding and highly proactive program management approach with strong cost, schedule, and management controls; demonstrated experience in early identification and resolution of program variances; and outstanding technical approach with highly skilled technical personnel to support it.

# Factor 1-3 – Prototype Concepts Approach

Evaluate the likelihood that the offeror's design and construction approach will result in a detailed proposal (including a 60% design) and subsequently a wall that meets or exceeds the Government's requirements.

Evaluate the contractor's design approach and its likelihood of producing a design that meets or exceeds the Government's requirements. The Government will also assess the offeror's appreciation of and ability to accommodate considerations of cost and cost-effectiveness.

Evaluate the offeror's demonstrated understanding of the border law enforcement environment, how the law enforcement environment and operations are impacted by a wall or other barrier, and how well the prototype concept accommodates operational considerations of the border environment.

A highly confident offer will have characteristics that include, but are not necessarily limited to, substantially exceeding nearly all of the Government's requirements, a complete and credible understanding of the importance of cost and cost-effectiveness throughout the design and construction process, a prototype concept that clearly accommodates and will be effective in the specific operational environment on the border, and a demonstrated ability to provide enhancements and increased performance without excessive impact to overall cost.

Offerors who fail to meet one or more of the Government's requirements, or who provide inadequate substantiation of performance to enable the Government to reach a reliable conclusion, will receive a low confidence rating and may be eliminated from further consideration.

53

#### PHASE II

# Factor 2-1 – Technical and Management Capability

The Government will consider how well the offeror's technical and management approaches are likely to result in a successful prototype. In particular, the Government will consider:

- The reasonableness and realism of the offeror's proposed schedule
- The extent to which the offeror's proposal meets or exceeds requirements
- The approach to maintenance and ease of repair
- The identification of risks and plans to mitigate them
- The reasonableness of any assumptions made by the offeror's
- The offeror's approach to assessing and reporting program progress
- The offeror's approach to maintain effective communication with the Government
- The qualifications of the offeror's proposed key personnel
- The offeror's evidence from a federally approved surety indicating that the Offeror (prime contractor only) can bond for the full value of its prototype.

# Factor 2-2 – Feasibility and Fit of the Prototype Wall Designs

Evaluated for evidence that the offeror understands the operational environment of the United States Border Patrol as it enforces our immigration laws along the United States Southwest Border. This will include evidence that the offeror understands the impacts of the environment on any design and construction activity.

The Government will evaluate the extent to which the offeror has demonstrated a clear understanding of the environment where the border wall will be deployed. "Environment" is intended to be a broad term. It includes not just elements like the geography and location, but also the nature of the law enforcement mission near the border. The Government will evaluate the rigor and reliability of the offeror's approach to demonstrate compliance with design requirements. The Government will also assess the soundness, effectiveness, completeness, and extent to which the offeror's 60% prototype design and construction approach accommodates and adjusts based on the environment, and how construction of a wall impacts on a wide range of considerations. Those considerations include, but are not limited to, terrain, geology, hydrology, wildlife, environmental preservation, weather, human activity, and aesthetic treatment of U.S. facing exterior wall. The Government will assess how well the offeror has demonstrated an understanding of the Border Patrol's operational mission, and how the design and construction of a wall impacts that mission. The Government will evaluate whether or not the offeror has presented ideas for wall design that will enhance the effectiveness of a wall in support of the Border Patrol and as part of a broader system of elements that contribute to border security. The Government will assess the likelihood that the offeror's product will be of benefit to the United States Border Patrol.

A highly confident offer will have characteristics including, but not necessarily limited to, outstanding awareness of the broad border environment that is substantiated and reinforced by experience with similar types of construction projects in similar environments; a reflection of that understanding in the proposed approach to design and construction of a border wall; an outstanding understanding of how the presence of a wall or other infrastructure will influence the ability of the Border Patrol to perform its mission; an outstanding understanding of the importance of reliability, strength, durability, susceptibility to damage, and ability to make repairs; and a presentation of innovative thinking and concepts that would significantly enhance the United States Border Patrol's effectiveness.

<sup>1</sup>Aesthetic Treatment – also commonly referred to as "architectural treatment", refers to the overall form of the wall, its features such as the wall cap, wall columns, end treatments, and safety shapes. It also refers to the incorporation of color, texture, pattern, and/or imagery to the surfaces of the "Other Border Wall Prototype" structure to improve their appearance and integrate them into their surrounding urban or natural environment.

#### Factors 1-1, 1-2, 1-3, 2-1, and 2-2

In evaluating Factors 1-1, 1-2, 1-3, 2-1 and 2-2, the Government will consider the offeror's approaches and the risks associated with the approaches proposed by the Offeror to arrive at a confidence assessment of the Offeror's likelihood of successfully performing the work and meeting the RFP's objectives. The table below shows the ratings the Government will assign in its evaluation of these factors.

RATINGS FOR FACTOR 1-1, 1-2, 1-3, 2-1 and 2-2		
Rating	Definition	
High Confidence	The Government has high confidence that the Offeror understands the	
	requirement, proposes a sound approach, and will be successful in	
	performing the contract with little or no Government intervention.	
Some Confidence	The Government has some confidence that the Offeror understands the	
	requirement, proposes a sound approach, and will be successful in	
	performing the contract with some Government intervention.	
Low Confidence	The Government has low confidence that the Offeror understands the	
	requirement, proposes a sound approach, or will be successful in	
	performing the contract even with Government intervention.	

Note that for Factor 2-1 and 2-2, the confidence rating will be assigned based on the evaluation of the Offeror's written submission *and* the Offeror's oral presentation for each factor.

# Factor 2-3 – Past Performance

The Government will determine its level of confidence in the ability of the Offeror to meet or exceed the requirements based on an evaluation of the Past Performance Questionnaires (PPQs). To evaluate the PPQs, the Government will evaluate the PPQs submitted in Attachment #3 (Past Performance Questionnaire (PPQ)), reserving the right to conduct telephone interviews with the Point of Contacts submitted for each project, and assess a confidence rating according to the table below. The Government may also consider past performance reports available on other past performance databases, such as the Past Performance Information Retrieval System (PPIRS), the Construction Contractor Appraisal Support System (CCASS), and the Contractor Performance Assessment Reporting System (CPARS), as part of its evaluation.

The past performance evaluation conducted for Factor 2-3 is in addition to the Contracting Officer's Determination of Prospective Contractor Responsibility that will be conducted in accordance with FAR 9.1.

RATINGS FOR FACTOR 2-3		
Rating	Definition	

High Confidence	The Government has high confidence that the Offeror will successfully
	perform the required effort with little or no Government intervention.
Some Confidence	The Government has some confidence that the Offeror will successfully
	perform the required the required effort with some Government
	intervention.
Low Confidence	The Government has low confidence that the Offeror will be able to
	successfully perform the required effort based on recent/relevant past
	performance even with Government intervention.
Neutral Confidence	No recent/relevant past performance is available, or the Offeror's
	performance record is so sparse, such that a meaningful confidence
	rating cannot be assigned. The Offeror may not be evaluated favorably
	or unfavorably on the factor of past performance.

#### Factor 2-4 – Small Business Subcontracting Plan

For Factor 2-4, Small Businesses will not be assigned a rating by the Government. All large businesses will be evaluated for this factors as follows:

The Government will assess the offeror's understanding, commitment, and past history of small business participation that will assist CBP in meeting their Small Business goals.

Reflects a valid corporate commitment between all parties in providing subcontracting opportunities for small business, small disadvantaged business, women-owned small business, Hubzone small business, and service-disabled veteran owned concerns. It is more advantageous to demonstrate specific, binding commitments for substantive work for this proposed effort;

The Government will assess how successful the offeror has been in meeting and/or exceed their subcontracting goals on previously performed contracts.

Reflects compliance with CBP goals listed in Section L

SMALL BUSINESS	38%
SMALL DISADVANTAGED	5%
WOMAN OWNED	5%
HUBZONE	3%
SERVICE DISABLED VETERAN OWNED	3%

The Offeror demonstrates realistic targets expressed in dollars and in percentages of the total proposed subcontracting dollars for each category listed above;

The Offeror demonstrates realistic targets for the SDB Participation Program expressed in dollars and percentages of total contract value for the authorized NAICS Industry Subsectors with respect to SDB participation in accordance with FAR 19.12; and

The Offeror's subcontracting plan meets the requirements of FAR 19.7. This is not an evaluation criterion, it is a basic contract requirement.

The Government will evaluate the Offeror's signed letter of mentor-protégé agreement approval from the DHS Office of Small Business and Disadvantaged Business Utilization (OSDBU), which is applicable only to large businesses. Small business offerors will receive the same amount of credit for being a small business (in

accordance with the NAICS code and size standard identified on the SF 1449) as large businesses who provide a signed letter of mentor-protégé agreement approval from the DHS OSDBU.

The Government will determine its level of confidence in the ability of all Offerors (both large and small businesses) to meet or exceed the small business goals for this requirement based on an evaluation of the small business subcontracting plan.

RATINGS FOR FACTOR 2-4		
Rating	Definition	
High Confidence	The Government has high confidence that the Offeror will meet or exceed	
	the small business subcontracting goals included in the requirement.	
Some Confidence	The Government has some confidence that the Offeror will meet or exceed	
	the small business subcontracting goals included in the requirement.	
Low Confidence	The Government has low confidence that the Offeror will meet or exceed	
	the small business subcontracting goals included in the requirement.	

# Factor 2-5 - Price

Price will be evaluated for fairness and reasonableness through the use of price analysis. The price evaluators will also check for appearance of unbalanced line item prices. Offerors are cautioned to distribute direct costs, such as material, labor, equipment, subcontracts, etc. and to evenly distribute indirect costs, such as job overhead, home office overhead, bond, etc., to the appropriate contract line items. The prime shall presume that field overhead costs through the proposed contract duration are inclusive in the offered price for the contract.

# M.7 Substantiating Evidence

The Government will consider substantiating evidence in applying the Evaluation Factors. Substantiating evidence may be used in the evaluation of all evaluation factors. Offerors are expected to substantiate claims in their proposal.

Examples of substantiating evidence include:

- Capabilities that are described by offerors in Phase II. Note: This bullet applies only to offerors within the Phase II.
- Analysis combined with outcomes, in which the analysis and outcomes support proposal claims.

[END OF SECTION M]

# Attachment #1:

SOW

# **BORDER WALL DESIGN/BUILD IDIQ CONTRACT**

# SECTION C – DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

#### **ARTICLE C.1 – INTRODUCTION**

CBP seeks highly qualified Contractors to assist in the development of a new border wall design standard as well as construct border wall and supporting tactical infrastructure/technology along the southwest border. CBP seeks highly qualified Contractors to propose a border wall using an innovative approach to meet or exceed CBP's performance requirements. The proposed prototype designs shall not include the use of proprietary design or equipment. Prototypes must offer designs that are alternatives to solid concrete walls.

CBP plans to enter into multiple-award, indefinite-delivery, indefinite-quantity (IDIQ), task order contracts for Border Wall Design/Build Construction. The IDIQ may include various, simultaneous task orders ranging from \$100,000 up to \$275,000,000 per task order.

CBP anticipates awarding IDIQ contracts to multiple Contractors. All selected Contractors will be awarded one (1) task order to construct its proposed prototype. All selected Contractors may also be provided an opportunity to propose on future task order requirements that are anticipated to be both design build and design bid build task orders for border wall and supporting tactical infrastructure and technology along the southwest border. Tactical infrastructure includes: access and patrol roads, fencing, drainage structures, motorized vehicle gates, light-emitting diode (LED) lighting, fiber optics and communication towers. Technology could include remote video surveillance systems (RVSS), ground sensors, etc.

# **ARTICLE C.2 – BACKGROUND**

The Border Patrol and Air and Marine (BPAM) Program Management Office (PMO), within the Office of Facilities and Asset Management (OFAM), manages the planning, leasing, construction and sustainment of real property for the United States Border Patrol (USBP) and Air and Marine Operations (AMO) facilities and tactical infrastructure (TI). Section 102 of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (IIRIRA), as amended, 8 U.S.C. § 1103, provides the Department of Homeland Security with the key authority to construct – in the most expeditious manner possible – the infrastructure necessary to deter and prevent illegal entry on our southwest border. Additionally, Executive Order 13767 directs the Government to build a border wall with Mexico. The BPAM PMO is responsible for overseeing the planning and construction of the border wall.

# **ARTICLE C.3 – GENERAL INTENTIONS**

The general intent of this acquisition is to award multiple indefinite-delivery, indefinite-quantity (IDIQ), task order contracts for the design and construction of border wall and associated tactical infrastructure/technology along the southwest border. The first task orders are anticipated to result in the design and construction of prototype walls that at a minimum meet CBP's Border Wall requirements, which are described below. CBP shall use best practices and lessons learned from the prototypes to develop a Government-approved design standard that is intended to serve as the basis for future wall construction.

CBP currently has design standards for its remaining tactical infrastructure components, which shall be provided to the IDIQ holders upon contract award. Tactical Infrastructure is defined in section C.5 Definitions.

#### **C.3.1 Border Wall Design Considerations:**

Individual task order requests for proposals under this IDIQ shall specify requirements for each task order. There are several principal requirements that shall be reflected and incorporated in any design-build activity under this IDIQ. Threshold requirements are intended to be minimums, although the terms of individual task orders may allow flexibility for trade-offs and variations among the threshold requirements and other factors. Objective requirements indicate features that, in addition to the thresholds, have significant value and would substantially enhance the effectiveness of a wall.

#### **Threshold Requirements**

- 1) The wall design shall be physically imposing in height. The Government's nominal concept is for a 30-foot high wall. Offerors should consider this height, but designs with heights of at least 18 feet may be acceptable. Designs with heights of less than 18 feet are not acceptable.
- 2) It shall not be possible for a human to climb to the top of the wall or access the top of the wall from either side unassisted (e.g. via the use of a ladder, etc.)
- 3) The wall design shall include anti-climb topping features that prevent scaling using common and more sophisticated climbing aids (e.g. grappling hooks, handholds, etc.)
- 4) The wall shall prevent digging or tunneling below it for a minimum of 6 feet below the lowest adjacent grade.
- 5) The wall shall prevent/deter for a minimum of 30 minutes the creation a physical breach of the wall (e.g., punching through the wall) larger than 12-inches in diameter or square using sledgehammer, car jack, pick axe, chisel, battery operated impact tools, battery operated cutting tools, Oxy/acetylene torch or other similar hand-held tools.
- 6) The north side of wall (i.e. U.S. facing side) shall be aesthetically pleasing in color, anti-climb texture, etc., to be consistent with general surrounding environment. The manufacturing/construction process should facilitate changes in color and texture pursuant to site specific requirements.
- 7) The wall design shall be able to accommodate surface drainage.
- 8) The wall design shall be able to accommodate Border Patrol approved design standards for pedestrian and automated mechanized vehicle sliding gates (25 feet and 50 feet).
- 9) The wall design shall be constructible to slopes up to 45 percent.
- 10) The wall fittings and fixtures shall be secured on the north side of the wall to shield from external attack.
- 11) The wall design should be cost effective to construct, maintain and repair.

#### **Objective Requirements**

- 1) Incorporating a see-through component/capability to the wall that facilitates situational awareness but does not negate the requirements listed above is operationally advantageous.
- 2) It is operationally advantageous that the design of first 12 feet of wall height (as measured from the highest adjacent grade) be adaptable to prevent/deter for a period of time greater than 30 minutes up to 4+ hours the creation of a physical breach of the wall (e.g., punching through the wall) larger than 12-inches in diameter or square using sledgehammer, car jack, pick axe, chisel, battery operated impact tools, battery operated cutting tools, propane or butane or other similar hand-held tools.

#### **C.3.2 Design and Construction Requirements**

The Contractor's design professionals shall be the Designers of Record for all awarded task orders to this IDIQ. They must take full responsibility for the design and must meet professional and regulatory standards. All work provided by the Contractor's Designers of Record shall be prepared by or under the direct supervision of licensed professional Engineers. Final calculations, drawings and specifications shall be affixed with signed and dated professional seals of the Architect or Engineer of Record for each specific professional discipline. Design and preparation of construction documents shall conform to all applicable codes and standards including, but not limited to, those listed within the RFP documents. The Contractor shall be responsible for the wall design. The Contractor shall be responsible for the coordination of design, engineering and construction disciplines in order to fulfill the requirements of this contract and to provide for a complete, integrated and functional design. All below grade utility crossings or other above or below grade interferences shall be coordinated, with any conflicts resolved, by the Contractor prior to start of construction.

The Contractor shall be responsible for the professional quality, code compliance, technical accuracy and coordination of all designs, drawings, specifications, and other documents or publications upon which the construction is based. Any additional Geotechnical information required by the Contractor shall be acquired as part of the design-build proposal. Construction documents shall be sufficient to afford a clear understanding of the construction work required. The work shall be organized in a manner that shall assure thorough coordination between the various details on the drawings and between the drawings and the specifications. The Contractor shall cross-check all work and certify that all conflicts have been reconciled.

The Contractor shall be responsible for the coordination of all Sub-Contractors required to complete construction.

The Contractor shall provide all labor, supervision, tools, materials, equipment, transportation, and management necessary or incidental to provide planning, construction, repair and alterations for CBP.

#### **C.3.3 Emergency Circumstances**

The Contractor shall provide the names, job titles, and contact information, to include telephone numbers (business, cell phones, facsimile, pager numbers, etc.) of a senior manager within the Contractor's organization, and a minimum of one similarly qualified alternate to serve as continuously available liaison with the BPAM PMO appointed Wall Program and Project Manager(s). The Contractor shall submit the above information to the Contracting Officer (CO) and Contracting Officer's Representative (COR) by email within two calendar days following receipt of the award. During the contract period, the Contracting Officer and the Contracting Officer's Representative (COR) shall be notified immediately, by email, of any changes regarding the designated liaisons.

#### **C.3.4 Prototype Requirements**

The Contractor shall provide for the design and construction of a full-scale prototype. The prototype wall shall be 30 feet long and meet all of the border wall requirements specified herein (with the exception of the drainage, steep slope and gate requirements). Prototypes constructed under this task order must offer designs that are alternatives to reinforced solid concrete walls (i.e. no solid concrete external faces). Alternatives may include, but are not limited to, designs that have differing materials or may not be entirely solid. The prototype will be constructed at a location in San Diego, CA as determined by the Government.

#### C.3.4.1 Border Wall (Task Order)

The Contractor shall provide for the design and construction of a 30 ft. long prototype. The prototype shall include the following requirements from section C.3.1 of this Statement of Work:

#### **Threshold Requirements**

- 1) The wall design shall be physically imposing in height. The Government's nominal concept is for a 30-foot high wall. Offerors should consider this height, but designs with heights of at least 18 feet may be acceptable. Designs with heights of less than 18 feet are not acceptable.
- 2) It shall not be possible for a human to climb to the top of the wall or access the top of the wall from either side unassisted (e.g. via the use of a ladder, etc.)
- 3) The wall design shall include anti-climb topping features that prevent scaling using common and more sophisticated climbing aids (e.g. grappling hooks, handholds, etc.)
- 4) The wall shall prevent digging or tunneling below it for a minimum of 6 feet below the lowest adjacent grade.
- 5) The wall shall prevent/deter for a minimum of 30 minutes the creation a physical breach of the wall (e.g., punching through the wall) no larger than 12-inches in diameter or square using sledgehammer, car jack, pick axe, chisel, battery operated impact tools, battery operated cutting tools, Oxy/acetylene torch or other similar hand-held tools.
- 6) The north side of wall (i.e. U.S. facing side) shall be aesthetically pleasing in color, anti-climb texture, etc., to be consistent with general surrounding environment. The manufacturing/construction process should facilitate changes in color and texture pursuant to site specific requirements.
- 7) The wall design shall be able to accommodate surface drainage.
- 8) The wall design shall be able to accommodate Border Patrol approved design standards for pedestrian and automated mechanized vehicle sliding gates (25 feet and 50 feet).
- 9) The wall design shall be constructible to slopes up to 45 percent.
- 10) The wall fittings and fixtures shall be secured on the north side of the wall to shield from external attack.
- 11) The wall design should be cost effective to construct, maintain and repair.

#### **Objective Requirements**

- 1) Incorporating a see-through component/capability to the wall that facilitates situational awareness but does not negate the requirements listed above is operationally advantageous.
- 2) It is operationally advantageous that the design of first 12 feet of wall height (as measured from the highest adjacent grade) be adaptable to prevent/deter for a period of time greater than 30 minutes up to 4+ hours the creation of a physical breach of the wall (e.g., punching through the wall) no larger than 12-inches in diameter or square using sledgehammer, car jack, pick axe, chisel, battery operated impact tools, battery operated cutting tools, propane or butane or other similar hand-held tools.

#### **C.3.4.2 Mock-Up Construction**

The Contractor shall design and construct a 10 ft. by 10 ft. mock-up of an exemplar section of its prototype at a location in San Diego, CA as determined by the Government. The mock-up shall replicate the structural design of the prototype's first 10 ft. of above ground wall height (measured from the adjacent ground) and length to allow the Government to test and evaluate the anti-destruct characteristics of the bidder's wall design. The mock-up shall meet all technical requirements except the anti-dig, anti-climb, and aesthetics. The anti-dig and anti-climb characteristics will not be tested with the mock-up. The modified above ground foundation shall not affect the criteria outlined in specifications below.

The mock-up shall include the following requirements from section C.3.4.1 of this Statement of Work:

- 1) The Contractor shall build the mock-up to reflect the maximum performance contained within the prototype design (i.e., between 30 minutes and 4+ hours).
- 2) The wall fittings and fixtures shall be secured on the north side of the wall to shield from external attack.
- 3) If the prototype wall design includes see-through component/capability then it shall be installed in the mock-up to test its anti-destruct capabilities

The mock-up shall be constructed within two (2) weeks after notice to proceed (NTP) and shall be constructed concurrent to prototype construction. Within seven (7) calendar days of notification of completion of mock-up completion of evaluation by the Government, the Contractor shall remove the structure and dispose of it properly. Disposal includes site clean-up after testing has concluded.

#### **C.3.4.3 Project Kick-off Meeting**

The Contractor shall attend a Government led project kick-off meeting eight (8) calendar days after task order award. The Contractor shall provide the following documents at the meeting:

- Detailed Schedule (recommended in Primavera) for the approach of the prototype and mock-up including, but not limited to, the following milestones: fabrication, site preparation, and install/construction to include a progress schedule. Schedule must include approach for completing construction of both the mock-up and prototype within the same thirty (30) calendar day timeline.
- Material and equipment staging plan
- Quality control (QC) plan
- Safety and security plan
- Documentation for personnel as outlined in Article C.10 Security

The Contractor shall be prepared to brief the Government on its plan and timeline for construction.

#### C.3.4.4 Prototype Design-Build

The purpose of the selected prototypes is to allow CBP to evaluate the features of the Contractor's design for potential inclusion in a border wall standard to be developed by the Government immediately following the construction and evaluation of the prototype designs.

The Contractor shall develop a design that meets the requirements cited in section C.3.4.1 excluding surface drainage and gates. The Contractor shall demonstrate that the design meets the requirements through the use of industry accepted practices.

- The Contractor shall conduct a final high-level design review with the Government at the project kick-off meeting.
- The Contractor shall follow all quality control and safety plans provided to the Government during the contract kick-off meeting.
- The Contractor shall be prepared to mobilize within one (1) week of contract award. Contractor shall not begin construction until Notice to Proceed (NTP) is issued. Once given NTP, Contractor shall complete prototype construction within thirty (30) calendar days.
- The Contractor shall ensure the design is compatible with the geography, terrain, and other characteristics of the prototype location. A Government provided geotechnical report will be

- provided with the Phase II solicitation. Additionally, the Government will hold a site visit at the prototype location seven (7) calendar days after the release of the Phase II solicitation.
- The Contractor shall produce and deliver to the Government the 95% design package within seven (7) calendar days of contract award.
- The Contractor shall be responsible for any staging areas as required at an offsite location. (I.e. no staging on the border will be made available by the Government).

#### C.3.4.5 Disposal

If, upon completion of its evaluation, the Government directs the Contractor to remove the prototype and dispose of it properly off-site, then the Contractor shall restore the site to the previously existing conditions. The Contractor shall complete the removal and restoration within fourteen (14) calendar days of notification by the Government.

#### C.3.4.6 Deliverables

Upon completion of the Prototype construction, the Contractor shall provide the Government 100% "as-built" designs.

Construction of a 10 ft. wall segment mock-up as defined in section C.3.4.2.

Removal of the mockup and site restoration as defined in section C.3.4.2.

Construction of a 30 ft. long prototype wall as defined in section C.3.4.1.

Removal of the prototype and site restoration as defined in section C.3.4.5.

Detailed Schedule as defined in 3.4.3

Material and Equipment Staging Plan as defined in 3.4.3

Quality Control (QC) Plan as defined in 3.4.3

Security Plan as defined in C.11 and C.11.1

Documentation for personnel as outlined in Article C.10 Security

Health and Safety Plan as defined in C.11

#### C.3.4.7 Government Furnished Information

Geotechnical site information for the prototype efforts will be provided in Phase II of the solicitation for the Contractor's use. Additionally, the Government will provide 10 ft. contour topographic information of the site. This information is not site specific data and should be used for informational purposes only.

Best Management Practice (BMP) requirements for meeting all environmental considerations in the construction area will be provided in Phase II of the solicitation.

#### **ARTICLE C.4 – CBP LOCATIONS**

Task orders under this contract may be performed at any of the following locations in the vicinity of the U.S. border with Mexico:

Southwest border in California, Arizona, New Mexico, and Texas

#### **ARTICLE C.5 – DEFINITIONS**

- a) Access Roads. Access roads generally provide access from public roads to the border patrol roads and to TI not accessible from a border road. Access roads are typically one-lane roads with pullouts and turnarounds to accommodate two-way traffic. The width of the access roads shall be 12 feet for one-lane roads but shall widen to 16 feet at curves and points of short sight distance. Access road width and pullout placement shall be designed to allow safe passing of two vehicles at the same time. The maximum width of access roads shall be 16 feet. Access roads are typically constructed of graded aggregate or native materials.
- b) Border Lighting. Border lights typically consist of LED (Light-Emitting Diode) fixtures mounted on poles to illuminate areas along and in proximity to the border to facilitate Border Patrol enforcement activities.
- c) Contracting Officer. "Contracting officer" means a person with the authority to enter into, administer, and/or terminate contracts and make related determinations and findings. The term includes certain authorized representatives of the contracting officer acting within the limits of their authority as delegated by the contracting officer. "Termination contracting officer (TCO)" refers to a contracting officer who is settling terminated contracts. A single contracting officer may be responsible for duties in any or all of these areas. Reference in this regulation (48 CFR Chapter 1) to administrative contracting officer or termination contracting officer does not:
  - 1. Require that a duty be performed at a particular office or activity; or
  - 2. Restrict in any way a contracting officer in the performance of any duty properly assigned.
- d) Contracting Officer's Representative. Person(s) designated by the Contracting Officer to be the authorized Government representative in charge of the project.
- e) Contractor. The term Contractor as used herein refers to both the prime Contractors and any of their subcontractors. The Contractor shall ensure that subcontractors comply with the provisions of this contract.
- f) Contractor Representative. A supervisor, superintendent, or manager assigned in accordance with the clause entitled SUPERINTENDENCE BY THE CONTRACTOR.
- g) Drainage Structures. Required to accommodate surface run-off and concentrated conveyance of storm water in a manner that keeps the border accessible to CBP during precipitation events.

- h) Fiber Optics Cable. Fiber optics cabling is typically installed in proximity to wall or fence and is used by CBP to facilitate telecommunications. CBP's OIT is responsible for providing and installing any electronics associated with the fiber optics cable.
- i) Gates. Gates in fencing and walls are needed to access International Boundary & Water Commission (IBWC) border monuments; accommodate large quantities of concentrated storm water run-off; and accommodate passage of authorized vehicles and personnel. The gates are manually operated with the exception of vehicle gates, which can be mechanized and automated if required.
- j) Patrol Roads. Border patrol roads are generally oriented parallel with the border and are used for direct enforcement of the border. Border roads are typically 20 feet wide and are posted for 25 miles per hour travel. These roads shall be designed to allow safe passing of two vehicles at the same time. The roads are constructed of asphalt, concrete or graded aggregate depending on the topography and geotechnical conditions.
- k) Quality Assurance (QA). A method used by the CBP to provide some measures of control over the quality of purchased goods and/or services received.
- 1) Quality Control (QC). A method used by the Contractor to control quality of goods and/or services produced.
- m) Scope of Work. Refers to a specific job which shall be ordered by an individual task order.
- n) Tactical Infrastructure (TI). TI are physical components designed to assist the Border Patrol in securing the border. These components include but are not limited to wall, fence, roads, gates, bridges, lights, boat ramps, and grates. TI facilitates deterrents and acts as an impediment that slows, delays, contains and serves an obstacle to illicit crossborder activities.
- o) Task Order. "Task order" means an order for services placed against an established contract or with Government sources.
- p) Telecommunications Towers. Towers ranging from 80 feet to several hundred feet used by CBP to provide tactical communications for Border Patrol command and control and safety. Towers shall include a shelter for equipment as well as a power supply, in some cases requiring solar power where electrical service is not available.
- q) Wall. An 18-30ft. tall barrier designed to prevent illegal entry and drug

#### ARTICLE C.6 - SCOPE OF WORK - DESIGN-BUILD PLANNING SERVICES

For Design-Build requirements, the Contractor shall provide Architectural and Engineering (A-E) planning services. A-E services that are not part of a design-build requirement are not allowed under this contract. The Contractor is required to provide detailed surveying, site layout work, shop drawings, drawings and sketches, drawings detail expansion, engineering calculations, and other related work as required to properly prepare and accomplish all design-build work. The Design-Build Contractor shall be responsible for the coordination of design, engineering and construction disciplines in order to fulfill the requirements of this contract and to provide for a complete, integrated and functional design. All below grade utility crossings or other above or below grade interferences shall be coordinated, with any

conflicts resolved, by the Contractor prior to start of construction. Construction documents shall be sufficient to afford a clear understanding of the construction work required. The work shall be organized in a manner that shall assure thorough coordination between the various details on the drawings and between the drawings and the specifications. The Contractor shall cross-check all work and certify that all conflicts have been reconciled. These guidelines establish the minimum level of quality and CBP-specific requirements for all design and construction projects at CBP. The minimum requirements in this document, as modified by project-specific variances, shall be thoroughly coordinated and reflected in the drawings and specifications. The Contractor shall also comply with the latest edition of all applicable national building codes and regulations. The degree of work may vary depending on the complexity of individual projects. Project record drawings are not considered A-E planning services. Record drawings shall be provided upon the completion of every task order.

Computer-Aided Drafting and Design. Drawings shall be prepared using the latest AutoCAD release. The drawing submission shall include hard copy and electronic documents. Quantity, size and format to be specified in task order.

Plans and Specifications. The A-E shall develop project-specific plans and specifications. The A-E shall develop the new specification using the latest version of the AIA (American Institute of Architects) Master specs as the baseline. Provide ten (10) hardcopy and electronic version in Microsoft Word and Adobe PDF. Quantity, size and format (including pdf) to be specified, as applicable, in each task order.

#### ARTICLE C.7 – SCOPE OF WORK – CONSTRUCTION SERVICES

Specifications shall be provided to the Contractor and shall be utilized under this contract, unless otherwise directed by the Contracting Officer.

The Contractor shall be responsible for, but not limited to, the following services:

- 1) Construction services. Construction services shall be provided in response to individual task orders. The work described herein extends beyond the conventional, single project construction concept in that it may involve the planning, scheduling, coordination, procuring, and installation of a fluctuating series of related tasks.
- 2) Work and Services. The work to be performed under this contract shall include furnishing all labor, materials, supervision, coordination, miscellaneous equipment and materials required for full and complete execution of the work as defined herein and the attached standard details.
- 3) The Contractor shall perform all management, supervision, and other administrative activities necessary to assure performance in strict compliance with the terms and conditions of this contract.
- 4) The Contractor shall provide all labor, materials, equipment, supplies, permits, fees, and consultant services required to construct and install the border wall and associated tactical infrastructure including but not necessarily limited to access roads, patrol roads, fiber optics cable, drainage structures, border lighting, and tactical communication towers.
- 5) The Contractor shall be responsible for the professional quality, code compliance, technical accuracy and coordination of all designs, drawings, specifications and other documents or publications upon which the construction is based.

- 6) All survey work performed by the Contractor, including but not limited to construction staking, topographic survey, and as-built drawings, during the design and construction shall be performed under the direction of a licensed professional Surveyor.
- 7) All construction required of the Contractor to complete the construction of the prototype and resulting task orders (if any), as well as any associated tactical infrastructure and technology insertions or add-ons, shall be in accordance with the criteria contained herein using industry standard materials and efficient practices. The Contractor shall buy materials and equipment accepted within the construction industry. The materials selected shall be of high quality, durable and easily maintained.
- 8) Beginning on the date of Notice to Proceed (NTP) on this contract, the Contractor shall be continuously available to Custom and Border Protection's representatives for response to requests for information, discussion of contract performance, and other contract administration activities such as billing or payment, etc.
- 9) The Contractor shall be responsible for the coordination of all Sub-Contractors required to complete construction.
- 10) The Contractor shall adhere to all construction related Best Management Practices (BMPs) identified by CBP in each Task Order Award. BMPs outline the Government's requirements for meeting all environmental considerations in the construction area. The Contractor shall be required to participate in CBP-provided BMP awareness training at the kickoff of the project. CBP shall conduct routine monitoring of BMP implementation during construction activities. The Contractor shall be required to immediately correct any non-compliant BMP upon notification by CBP.
- 11) Neither the Contractor, nor the Contractor's representatives, shall release any report, data, specification, photograph, cost estimate, nor other information in any form obtained or prepared under this contract without prior written approval of the Contracting Officer.
- 12) Upon completion of any construction project awarded under the IDIQ, the Contractor shall submit Final As-Built Drawings and Specifications. Other construction records, including requests for information (RFI) and QA/QC documents, shall be submitted in Adobe Acrobat PDF format.
- 13) Record Documents. During the progress of the job, the Contractor shall keep a careful record at the job site of all changes and corrections from the layouts shown on the drawings. The Contractor shall enter such changes and corrections on contract record drawings and shall indicate, in addition to all changes and corrections, the actual location of all sub-surface utility lines. In order that the location of the lines and appurtenances may be determined in the event the surface openings or indicators become covered over or obscured, the record drawings shall show, by offset dimensions to two permanently fixed surface fixtures, the end of each run, and each change in direction. Valve, splice boxes, and similar appurtenances shall be located by dimensioning along the utility run from a reference point. The average depth below the surface of each run shall also be recorded. At the time of final acceptance of each structure or facility involved under the contract, the Contractor shall submit to the Contracting Officer record documents.
- 14) Record of Materials. The Contractor is required to furnish a record of materials used in the construction upon completion of each task order. The deadline for submission of the record of materials will be specified at the task order level. Submission of this data is a condition

for final payment. Where several manufacturers 'brands, types, or classes of the item listed have been used in the project, the specific areas where each item was used shall be designated. Designation shall key to the areas and spaces depicted on the record drawings.

15) Contractor's Management and Supervision. The Contractor shall provide and maintain a professional staff for the management and supervision of all task orders. The Contractor is solely responsible for obtaining any other services deemed necessary for effective execution of task orders.

#### ARTICLE C.8 – DESIGN AND CONSTRUCTION SCHEDULE

Within seven (7) calendar days of receipt of any task order award (including the prototype task order), the Contractor shall submit a proposed design and/or construction schedule for review and approval by the Contracting Officer's Representative. The schedule shall be approved in writing by the Contracting Officer's Representative before any work is started. The schedule shall be prepared in Critical Path Method (CPM) – program based format following the outline of the component divisions and subsections of the project specifications. The schedule shall be prepared in Primavera (or equivalent scheduling software) in sufficient size and detail to clearly indicate the following:

The schedule shall include the proposed sequence of design and construction including required phasing of the work the design and construction submissions (e.g. design submissions, shop drawings, samples, and other submittal information). This should include projected submittal approval dates (allow ten (10) working days for review) and material delivery dates. Contractor shall provide Work Breakdown Schedule (WBS) for approval which shall include the activity identification system for labeling all work activities. Costs assigned to all activities shall equal the contract value, including material and equipment.

The Project Schedule shall include time scaled network diagrams; computer generated mathematical analysis reports, and associated reports as required by this Specification section. The mathematical analysis reports shall include, at a minimum, the following information:

- 1) Activity number(s) and descriptions;
- 2) All WBS codes;
- 3) Original and remaining durations for each activity;
- 4) Early start by calendar date:
- 5) Early finish by calendar date;
- 6) Late start by calendar date;
- 7) Late finish by calendar date:
- 8) Actual start by calendar date;
- 9) Actual finish by calendar date
- 10) Total float in work days;
- 11) Monetary value of each activity:
- 12) Percentage of activity complete linked to remaining duration;
- 13) Contractors earnings, based on the Contractors reported portion of activities completed and accepted; and
- 14) Imposed constraints.

All requirements shall be specified on a task order basis.

#### ARTICLE C.9 - CONTRACTOR QUALITY CONTROL (CQC) PROGRAM

A general description of the CQC Program shall be available for CBP review during the pre-award survey. Two copies of the complete CQC Program shall be provided to the Contracting Officer for

review and approval within thirty (30) calendar days after award of the master contract and as changes are made thereafter. The program shall include:

- 1) A quality control inspection system covering all contract services. It must specify areas to be inspected on both a scheduled or unscheduled basis and how inspections are to be conducted.
- 2) The name(s) and qualifications of the individual(s) tasked to perform the quality control inspections, and the extent of their authority.
- 3) A method for identifying deficiencies in the quality of services performed and taking corrective action before the level of performance becomes mandatory.

A file of all Quality Control Inspections, Inspection results, and any corrective action required, shall be maintained by the Contractors throughout the term of this contract. This file shall be the property of the CBP and shall be made available to the Contracting Officer within one (1) hour of request. The file shall be turned over to the Contracting Officer within five (5) calendar days after completion/termination of the task order and prior to final payment.

#### ARTICLE C.10 KEY PERSONNEL

The Contractor shall provide key personnel as defined below.

#### Construction Superintendent:

Coordinates and oversees completion of the construction of the project. Manages the site for the Contractor and serves as field point of contact for the construction effort. Provides construction reports as per this statement of work. Coordinates scheduling of site activities with Government Project Manager and site representatives. The credentials of the proposed Construction Superintendent(s) will be reviewed to ensure they have at least ten (10) years of experience on construction projects. Provides list of employees in time to complete vetting and ensures only CBP vetted personnel are on job site.

#### Project Manager:

Coordinate and oversee completion of activities in all phases of the project. Manages the entire project and serves as the main contact for the Government for the project design and construction effort. Integrates and coordinates the project with design and field personnel. Ensures site personnel work with Government project team for scheduling of deliveries and construction activities. The credentials of the proposed Project Manager will be reviewed to ensure they have a technical degree and/or equivalent experience, and at least five (5) years of experience on construction projects. The credentials of the proposed Project Manager will be reviewed to ensure they have a bachelor's degree in engineering or related technical field or business/management. Additionally, a minimum of 5 years post-graduate experience managing and supervising construction projects is required.

#### Lead Designer:

Serves as design lead for project. Primary design contact to Government to provide all information requested to satisfy design requirements. Must be a licensed professional engineer. Ensures design meets or exceeds all Government requirements. The credentials of the proposed Lead Designer will be reviewed to ensure they are a registered professional engineer. Professional Registration and/or Licensing is required in California. Texas, New Mexico, and Arizona are preferred as well.

#### ARTICLE C.11 SECURITY

It shall be the Contractor's responsibility to furnish its own security for personnel and to safeguard its equipment during the entire project lifecycle. This shall include, but not be limited to, the actual project sites and/or staging areas and storage facilities. The Contractor shall install temporary chain link fencing

with barbed wire to deter vandalism to the structures when no work is taking place. The U.S. Customs and Border Protection will not provide security for the Contractor, its equipment, or its materials.

As part of the security requirement, the Contractor shall be responsible for the development of a Security Plan in conjunction with the Health and Safety Plan. The detailed Security Plan shall include details such as, but not limited to; "fall back positions," evacuation routines and methods, muster area, medical staff members/availability, number of security personnel, qualifications, years of experience, etc. in the event of a hostile attack. This plan shall be reviewed by Contracting Officer's Representative for inspection and final acceptance prior to construction activities. The Contractor shall bring three (3) copies of the security plan to the pre-construction conference.

Additional Security requirements may be required in future task orders.

The Contractor shall be responsible for submitting a list of all personnel required at the jobsites for verification by CBP prior to conducting activities. Activities include, but are not limited to; site investigations, surveys, and construction. No employee shall be allowed on site until screened and checked for criminal history and proper immigration status. Any personnel having questionable history/backgrounds shall be rejected and not authorized to enter the jobsite. This list marked "CONFIDENTIAL" shall be submitted to the Contracting Officer for forwarding to Border Patrol personnel.

To facilitate the screening and checking of each employee entering in or working on Federal property, the General Contractor shall submit:

- The individual's full name
- Company Name
- Date of Birth (DOB)
- Social Security Number
- Driver's License and/or State Identification Number
- Place of Birth (POB)

After submission of requirements stated above, the Contractor shall proceed with all work unless further notified by the Government.

Employee Identification Badges: Contractor personnel shall wear visible Contractor-furnished employee identification badges while physically on the construction site. Each badge shall include, as a minimum, the company name, employee name, photograph of employee, Contract Title, Contract Number, and the expiration date of the badge.

D) Reporting of New and Departing Employees

The Contractor shall notify the Contracting Officer Representative (COR) and Contracting Officer within five (5) working days of staffing changes.

- i. New Employees: Provide the individual's full name, Company Name, Date of Birth (DOB), Social Security Number, Driver's License and/or State Identification Number, Place of Birth (POB)
- ii. Departing Employees: Provide the name and position title, and security clearance level held by or pending for the individual

#### **C.11.1 Prototype Site Security**

The Contractor shall ensure all personnel employed on the construction activity become familiar with and obey construction regulations including safety, fire, traffic and security regulations. The Contractor shall also ensure all personnel keep within the limits of its designated worksite and avenues of ingress and egress. Ingress and egress of Contractor vehicles at the construction site is limited to the Contractor's gate. Hard hats must be worn in designated areas. No personnel shall enter any restricted areas unless required to do so and until cleared for such entry. The Contractor's equipment shall be conspicuously marked for identification.

#### **ARTICLE C.12 REPORTING REQUIREMENTS**

#### 1) TECHNICAL PROGRESS REPORTS

In addition to the required reports set forth elsewhere in this Statement of Work, the preparation and submission of regularly recurring Technical Progress Reports shall be required in any contract resulting from this solicitation. These reports shall require descriptive information about the activities under taken during the reporting period and shall require information about planned activities for future reporting periods. The frequency and specific content of these reports shall be determined prior to contract award for monitoring of the overall IDIQ contract and on a task order basis for each awarded task basis.

For proposal preparation purposes only, it is estimated that in addition to the required electronic version(s) five (5) hard copies of these reports shall be required as follows:

[X] Weekly
[ ] Quarterly
[] Semi-Annually
[ ] Annually
[ ] Annually (with a requirement for a Draft Annual Report)
[X] Final - Upon final completion of each task order
[X] Final - Upon final completion of the contract (with a requirement for a Draft Final
Report)

#### 2) OTHER REPORTS/DELIVERABLES

All required reports and deliverables shall be specified in each task order issued by the Government.

#### ARTICLE C.13 SPECIAL CONSIDERATIONS

Neither the Contractor nor any subcontractor or representative thereof shall release or publish any sketch, photograph, report or other material of any nature derived or prepared under any resulting task order without specific written permission of the Contracting Officer except as specifically provided in the SOW.

Copyright shall not be claimed by the Contractor for any materials produced under any resulting task order. All such materials are to remain within the public domain.

The Contractor and those in its employ may not, during the term of the agreement, present reports of research from this project to various professional societies and publications. Abstracts and copies of these reports, presentations, or articles utilizing work sponsored by any resulting task order shall be provided to the Contracting Officer for approval prior to publication or presentation.

In the event the Contractor encounters problems in fulfilling performance requirements, or when difficulties are anticipated in complying with any task order schedule or dates, or whenever the Contractor has knowledge a potential situation is delaying or threatening to delay timely performance of tasks, the Contractor shall immediately notify the Contracting Officer by phone and in writing noting all relevant details.

The Government requires unlimited rights in any material first produced in the performance of this Contract, in accordance with the FAR clause at 52.227-17. In addition, for any material first produced in the performance of this contract, the materials may be shared with other agencies or contractors during the period of performance of any resulting task order, or after its termination. For any subcontractors or teaming partners, the Contractor shall ensure at proposal submission that the subcontractors and /or teaming partners are willing to provide the data rights required under any resulting task order.

#### END OF STATEMENT OF WORK

## Attachment #2:

Supporting Price Details Spreadsheets

# TO BE PROVIDED TO OFFERORS INVITED TO PARTICIPATE IN PHASE II

### Attachment #3:

Past Performance Reference Questionnaire

DHS CBP PAST PERFORMANCE QUESTIONNAIRE (Form PPQ)			
CONTRACT INFORMATION (Contractor to complete Blocks 1-4 )			
1. Contractor Information  Firm Name: CAGE Code: Address: DUNs  Phone Number: Email Address: Point of Contact: Contact Phone Number:			
2. Work Performed as:			
3. Contract Information Contract Number: Delivery/Task Order Number (if applicable): Contract Type:			
Award Date (mm/dd/yy): Contract Completion Date (mm/dd/yy): Actual Completion Date (mm/dd/yy):			
Original Contract Price (Award Amount):			
Final Contract Price (to include all modifications, if applicable):			
<b>4. Project Description:</b> Complexity of Work High Routine How is this project relevant to project of submission?			
CLIENT INFORMATION (Client to complete Blocks 5-8)			
5. Client Information Name: Title: Phone Number: Email Address:			
6. Describe the client's role in the project:			
7. Date Questionnaire was completed (mm/dd/yy): 8. Client's Signature:			

Contractor Information (Firm Name): Client Information (Name):

#### TO BE COMPLETED BY CLIENT

Meaning of Numbers: 1=Unacceptable, 2=Poor, 3=Acceptable, 4=Good, 5=Excellent When numbers are given after a question, please circle the one that best applies. 1. QUALITY: a) Quality of technical data/report preparation efforts b) Ability to meet quality standards specified for technical performance c) Timeliness/effectiveness of contract problem resolution without extensive customer guidance d) Adequacy/effectiveness of quality control program and adherence to contract quality assurance requirements (without adverse effect on performance) 2. SCHEDULE/TIMELINESS OF PERFORMANCE: a) Compliance with contract delivery/completion schedules including any significant intermediate milestones. (If liquidated damages were assessed or the schedule was not met, please address below) b) Rate the contractor's use of available resources to accomplish tasks identified in the contract 3. CUSTOMER SATISFACTION: a) To what extent were the end users satisfied with the project? b) Contractor was reasonable and cooperative in dealing with your staff (including the ability to successfully resolve disagreements/disputes; responsiveness to administrative reports, businesslike and communication) c) To what extent was the contractor cooperative, businesslike, and concerned with the interests of the customer? d) Overall customer satisfaction 4. MANAGEMENT/ PERSONNEL/LABOR a) Effectiveness of on-site management, including management of subcontractors, suppliers, materials, and/or labor force? b) Ability to hire, apply, and retain a qualified workforce to this effort c) Government Property Control d) Knowledge/expertise demonstrated by contractor personnel e) Utilization of Small Business concerns f) Ability to simultaneously manage multiple projects with multiple disciplines g) Ability to assimilate and incorporate changes in requirements and/or priority, including planning, execution and response to Government changes h) Effectiveness of overall management (including ability to effectively lead, manage and control the program) 5. COST/FINANCIAL MANAGEMENT a) Ability to meet the terms and conditions within the contractually agreed price(s)?

Contractor Information (Firm Name): Client Information (Name):

b) Contractor proposed innovative alternative methods/processes that reduced cost, improved maintainability or other factors that benefited the client	1	2	3	4	5
c) If this is/was a Government cost type contract, please rate the Contractor's timeliness and accuracy in submitting monthly invoices with appropriate back-up documentation, monthly status reports/budget variance reports, compliance with established budgets and avoidance of significant and/or unexplained variances (under runs or overruns)	1	2	3	4	5
d) Is the Contractor's accounting system adequate for management and tracking of costs? <i>If no, please explain in Remarks section.</i>		Y	es		No
e) If this is/was a Government contract, has/was this contract been partially or completely terminated for default or convenience or are there any pending terminations? <i>Indicate if show cause or cure notices were issued, or any default action in comment section below.</i>		Y	es		No
f) Have there been any indications that the contractor has had any financial problems? <i>If yes, please explain below.</i>		Y	es		No
6. SAFETY/SECURITY					
a) To what extent was the contractor able to maintain an environment of safety, adhere to its approved safety plan, and respond to safety issues? (Includes: following the users rules, regulations, and requirements regarding housekeeping, safety, correction of noted deficiencies, etc.)	1	2	3	4	5
b) Contractor complied with all security requirements for the project and personnel security requirements.	1	2	3	4	5
7. GENERAL					
a) Ability to successfully respond to emergency and/or surge situations (including notifying COR, PM or Contracting Officer in a timely manner regarding urgent contractual issues).	1	2	3	4	5
b) Compliance with contractual terms/provisions (explain if specific issues)	1	2	3	4	5
c) Would you hire or work with this firm again? (If no, please explain below)		Y	es		No
d) In summary, provide an overall rating for the work performed by this contractor.	1	2	3	4	5

Please provide responses to the questions above (if applicable) and/or additional remarks. (please attach additional pages if necessary):

## Attachment #4:

**CBP Subcontracting Plan Template** 

### EXHIBIT SMALL BUSINESS SUBCONTRACTING PLAN TEMPLATE

## U.S. CUSTOMS AND BORDER PROTECTION (CBP) SMALL, HUBZone SMALL, SMALL DISADVANTAGED, WOMEN-OWNED VETERAN-OWNED SMALL BUSINESS & SERVICE DISABLED VETERAN-OWNED SMALL BUSINESS SUBCONTRACTING PLAN OUTLINE

The following outline meets the minimum requirements of Public Law 95-507 and the Federal Acquisition Regulation (FAR) Subparts 19.7. It is intended to be a guideline. It is not intended to replace any existing corporate plan which is more extensive. If assistance is needed to locate small business sources, contact the U.S. Customs and Border Protection (CBP) Small Business Specialist, Mr. Herman T. Shivers (202) 344-2895.

HUBZONE small busir	CBP has subcontracting goals of% for small business,% for business,% for small disadvantaged business,% for womenness and a% goal for Service Disabled Veteran-Owned (a subset of hall businesses) concerns for fiscal year 2016 -2017.
Identification Data:	
Company Name:	
Address:	Solicitation Number:
Item/Service:	Ooilottation Number:
	ce:
1. TYPE OF PLAN	: (Check only one).
S	NDIVIDUAL PLAN: In this type of plan all elements are developed pecifically for this contract and are applicable for the full term of this ontract.
o (;	MASTER PLAN: In this type of plan, goals are developed for this contact; all ther elements are standard. The master plan must be approved every three 3) years. Once incorporated into a contract with specific goals, it is valid for the life of the contract.
p F re	COMMERCIAL PLAN: This type of plan is used when the contractor sells products and services customarily used for nongovernment purposes. Plan/goals are negotiated with the initial agency on a company-wide basis eather than for individual contracts. The plan is effective only during year approved. The contractor must provide a copy of the initial agency approval,

#### 2. GOALS:

FAR 19.704(a) (1) requires separate dollar and percentage goals for using small business concerns, HUBZone small business concerns, small disadvantaged business concerns, women-owned small

business and veteran-owned small business concerns as subcontractors for the base year and each option year. (Please note that the goals for HUBZONE small business, small disadvantaged business, women-owned small business, and veteran-owned small business concerns are subsets of the small business goal).

A. Estimated dollar value of all planned subcontracting, i.e., to all types of business concerns under this contract is:

Please fill out Exhibit 12b, Small Business Subcontracting Plan Data Sheet.

B. Estimated dollar value\* and percentage of planned subcontracting to small business concerns is: (\*This figure includes the amount in C., D., E., and F. below.)

Please fill out Exhibit 12b, Small Business Subcontracting Plan Data Sheet.

C. Estimated dollar value and percentage of planned subcontracting to HUBZone small business concerns are:

Please fill out Exhibit 12b, Small Business Subcontracting Plan Data Sheet.

D. Estimated dollar value and percentage of planned subcontracting to small disadvantage business concerns is:

Please fill out Exhibit 12b, Small Business Subcontracting Plan Data Sheet.

E. Estimated dollar value and percentage of planned subcontracting to small women-owned business concerns is:

Please fill out Exhibit 12b, Small Business Subcontracting Plan Data Sheet.

F. Estimated dollar value and percentage of planned subcontracting to veteran-owned small business concerns is:

Please fill out Exhibit 12b, Small Business Subcontracting Plan Data Sheet.

G. Supplies and/or services to be subcontracted under this contract, business size (i.e., SB, HUBZone, SDB, WOSB, VOSB and LB), and the estimated dollar expenditure, are: (Check all that apply).

SUPPLY/ COMPANY BUSINESS DOLLAR SERVICE NAME SIZE AMOUNT (IF KNOWN) (SB, HUBZone, SDB, VOSB, LB)

	(Attach additional sheets if necessary.)
H.	Explain the methods used to develop the subcontracting goals for small, HUBZone small business, small disadvantaged, women-owned small business, and veteran-owned small business concerns. Explain how the product and service areas to be subcontracted were established, how the areas to be subcontracted to small, HUBZone small business, small disadvantage, women-owned small, and veteran-owned small businesses were determined, and how the capabilities of small, HUBZone small, small disadvantage, women-owned small, and veteran-owned small businesses were determined. Identify all source lists used in the determination process.
I.	Indirect and overhead costs HAVE BEEN HAVE NOT BEEN
	Included in the dollar and percentage subcontracting goals stated above. (Check one.)
J.	If indirect and overhead costs HAVE BEEN included, explain the method used to determine the proportionate share of such costs to be allocated as subcontracts to small, HUBZone small, small disadvantaged, women-owned small, and veteran-owned small business concerns.
3.	PLAN ADMINISTRATOR:

FAR 19.704 (a) (7) required information about the company employee who will administer the subcontracting program. Please provide the name, title address, phone number, position within the corporate structure and the duties of that employee.

Name:

Title: Address: Telephone: Position:		
<u>Duties:</u> company pe		? (If NO is checked, please indicate who in the luties are not performed in your company).
A.	company's/division's support for award	vision policy statements that demonstrate the ling contracts and subcontracts to small, women-owned small, and veteran-owned small
	YES	NO
B.		sts of small, HUBZone small, small disadvantage, and small business concerns from all possible
	YES	NO
C.	Ensuring periodic rotation of potential	subcontractors on bidders' lists.
	YES	NO
D.		mall disadvantaged, women-owned small, and not
E.		NO t "packages" are designed to permit the maximum ne small, small disadvantage, women-owned esses.
	YES	NO
F.		remove statements, clauses, etc., which might tend small, small disadvantaged, women-owned small, rticipation.
	YES	NO
G.		osal review board documents its reasons for not nall, HUBZone small, small disadvantage, women-ll business concerns.
	YES	NO

H. Overseeing the establishment and maintenance of contract and subcontract award

records.		
	YES	NO
		e of company counselors at Business s Enterprise Seminars, Trade Fairs, etc.
	YES	NO
owned sn		JBZone small, small disadvantaged, women- usiness concerns on subcontracting opportunities e company.
	YES	NO
business veteran-o	status as small, HUBZone small wned small business for the pu	rning penalties for misrepresentations of II, small disadvantage, women-owned small, or rpose of obtaining a subcontract that is to be I in the contractor's subcontracting plan.
	YES	NO
	ng or arranging training for purc Public Law 95-907 on purchasi	hasing personnel regarding the intent and ng procedures.
	YES	NO
	ng and maintaining an incentive acting program.	program for buyers which supports the
	YES	NO
	g the company's performance a ne subcontract plan goals.	nd making any adjustments necessary to
	YES	NO
Preparing	and submitting timely reports.	
	YES	NO

	Ρ.	Coordinating the company's activities during compliance reviews by Federal agencies.
		YESNO
4. <u>E</u>	<u> TIU</u>	TABLE OPPORTUNITY:
HUB2	Zone	04 (a) (8) requires a description of the efforts your company will make to ensure that small, small, small disadvantaged, women-owned small, and veteran-owned small business concerns an equitable opportunity to compete for subcontracts. (Check all that apply.)
	a.	Outreach efforts to obtain sources:
		Contacting minority and small business trade associations Contacting business development organizations Attending small and minority business procurement conferences and trade fairs Finding sources from the Small Business Administration's Procurement Network (ProNet)
	b.	Internal efforts to guide and encourage purchasing personnel:
		Presenting workshops, seminars and training programs Establishing, maintaining and using small, HUBZone small, small disadvantaged, women-owned small, and veteran-owned small business source lists, guides and other data for soliciting subcontracts Monitoring activities to evaluate compliance with the subcontracting plan
	C.	Additional efforts: (Please describe.)

#### 5. CLAUSE INCLUSIONS AND FLOW DOWN:

Far 19.704 (A) (9) requires that your company include FAR 52.219-8, "Utilization of Small Business Concerns", in all subcontracts that offer further subcontracting opportunities. Your company must require all subcontractors, except small business concerns, that receive subcontracts in excess of \$550,000 (\$1,000,000 for construction) to adopt and comply with a plan similar to the plan required by FAR 52.219.9, "Small Business Subcontracting Plan."

Your company agrees that the clause will be included and that the plans will be reviewed against the minimum requirements for such plans. The acceptability of percentage goals for small, HUBZone small, small disadvantaged, women-owned small, and veteran-owned small business concerns must be

determined on a case-by-case basis depending on the supplies and services involved, the availability of potential small, HUBZone small, small disadvantaged, women-owned small, and veteran-owned small business subcontractors and prior experience. Once the plans are negotiated, approved, and implemented, the plans must be monitored through the submission of periodic reports, including the Electronic Subcontracting Reporting System (eSRS), at <a href="http://www.esrs.gov">http://www.esrs.gov</a>).

#### 6. REPORTING AND COOPERATION

FAR 19.704(a) (10) requires that your company (1) cooperate in any studies or surveys as may be required, (2) submit periodic reports into eSRS which show compliance with the subcontracting plan; (3) submit Individual Subcontracting Report (ISR), and Summary Subcontract Report (SSR), in accordance with Class Deviation from FAR dated March 8, 2006; and (4) ensure that subcontractors agree to submit the ISR and SSR into eSRS. The cognizant Contracting Officer of CBP must receive the reports (within 30 days after the close of each calendar period. That is:

Calendar Period	Report Due	Date Due	Send Report To
10/01 – 03/31	ISR	04/30	Contracting Officer
04/01 - 09/30	ISR	10/30	Contracting Officer
10/01 - 09/30	ISR	10/30	Contracting Officer

#### 7. RECORDKEEPING:

FAR 19.704 (a) (11) requires a list of the types of records your company will maintain to demonstrate the procedures adopted to comply with the requirements and goals in the subcontracting plan. (Check all that apply.) (If NO is checked, please indicate why these types of records are not maintained).

A.	Small, small disadvantaged, women-owned small, HUBZone small, veteran-owned small business concern source lists, guides, and other data identifying such vendors. YESNO
B.	Organizations contracted for small, small disadvantaged, women-owned small, HUBZone small, veteran-owned small and service disabled veteran-owned small business sources. YESNO

C. On a contract-by-contract basis, records on all subcontract solicitations over \$100,000 which indicate fore each solicitation (1) whether small business concerns were solicited, and if not, why not; (2) whether small disadvantaged business concerns were solicited, and if not, why not; (3) whether women-owned small business concerns were solicited, and if not, why not; (4) whether HUBZone small business concerns were solicited, and if not, why not; (5) whether veteran-owned small business concerns were solicited, and if not, why not; (6) whether service disabled veteran-owned small businesses were solicited, and if not, why not; and (7) reasons for the failure of solicited small,

	small disadvantaged, women-owned small, HUBZone small, veteran-owned small, and service disabled veteran-owned small business concerns to receive the subcontract award YESNO
D.	Records to support other outreach efforts, e.g., contacts with minority and small business trade associations, attendance at small and minority business procurement conference and trade fairs. YESNO
E.	Records to support internal activities to (1) guide and encourage purchasing personnel, e.g., workshops, seminars, training programs, incentive awards; and (2) monitor activities to evaluate compliance.
	YESNO
F.	On a contract-by-contract basis, records to support subcontract award data including the name, address and business size and ownership status (SDB, WOB, HUBZone, VOSB, SDVOSB, etc.) of each subcontractor. (This item is not required for company or division-wide commercial plans.) YESNO
G.	Other records to support your compliance with the subcontracting plan: (Please describe)
	<del></del>
8.	TIMELY PAYMENT TO SUBCONTRACTORS
of dis	R 19.702 requires your company to establish and use procedures to ensure the timely payment amounts due pursuant to the terms of your subcontract with small business concerns, small sadvantaged business concerns, women-owned small business concerns, HUBZone small siness concerns, veteran-owned small business concerns, and service disabled veteran-owned all business concerns.
Yo	ur company has established and uses such procedures:
	YESNO
9.	YESNO  DESCRIPTION OF GOOD FAITH EFFORT
Ma vet Go cor ach In d dis vet	

\_\_\_\_\_

#### 10. SIGNATURES REQUIRED

This subcontracting plan was SUBMITTED by:

Signature:

Typed Name:

Title:

Date:

This subcontracting plan was REVIEWED by:

Signature:

Typed Name:

Title: Contracting Officer

Date:

This subcontracting plan was REVIEWED by:

Signature:

Typed Name:

Title: Small Business Specialist

Date:

This subcontracting plan was REVIEWED by:

Signature:

Typed Name:

Title: Small Business Administration - PCR

Date:

This subcontracting plan was ACCEPTED by:

Signature:

Typed Name:

Title: Contracting Officer

Date:

## Attachment #5:

Wage Determination

General Decision Number: CA170001 03/03/2017 CA1

Superseded General Decision Number: CA20160001

State: California

Construction Types: Building, Heavy (Heavy and Dredging),

Highway and Residential

County: San Diego County in California.

BUILDING CONSTRUCTION PROJECTS; DREDGING PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); HIGHWAY CONSTRUCTION PROJECTS; RESIDENTIAL CONSTRUCTION PROJECTS (consisting of single family homes and apartments up to and including 4 stories)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.20 for calendar year 2017 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.20 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2017. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

#### Modification Number Publication Date

U	01/06/2017
1	01/27/2017
2	02/17/2017
3	02/24/2017
4	03/03/2017

#### ASBE0005-002 07/04/2016

	Rates	Fringes
Asbestos Workers/Insulator		
(Includes the application of		
all insulating materials,		
protective coverings,		
coatings, and finishes to all		
types of mechanical systems)	\$ 38.37	20.13
Fire Stop Technician		
(Application of Firestopping		
Materials for wall openings		
and penetrations in walls,		
floors, ceilings and curtain		
walls)	\$ 26.15	17.31
AGD TOO 05 00 4 05 10 4 10 01 6		

	Rates	Fringes	
Asbestos Removal worker/hazardous material handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)		10.82	
BOIL0092-003 10/01/2012			<del></del>
	Rates	Fringes	
BOILERMAKER	.\$ 41.17	28.27	•
BRCA0004-008 11/01/2016			<b></b>
	R	ates	Fringes
BRICKLAYER; MARBLE SE	TTER	\$ 35.30	17.35
BRCA0018-004 06/01/2016			· <del>-</del>
	Rates	Fringes	
MARBLE FINISHERTILE FINISHERTILE LAYER	\$ 24.53	11.0	08
BRCA0018-010 09/01/2016			· <b>-</b>
	Rate	s Fri	inges
TERRAZZO FINISHERTERRAZZO WORKER/SETT			12.27 13.14
CARP0409-002 07/01/2008			<b></b>
Rate	s Frin	ges	
Diver (1) Wet\$ 663. (2) Standby\$ 331		9.82 9.82	

Amounts in "Rates' column are	per day	
CARP0409-008 08/01/2010		
	Rates	Fringes
Modular Furniture Installer	8 17.00	7.41
CARP0547-001 07/01/2016		
	Rates	Fringes
CARPENTER (1) Bridge (2) Commercial Building (3) Heavy & Highway (4) Residential Carpenter (5) Residential Insulation Installer MILLWRIGHT	\$ 37.15 \$ 25.84 \$ 18.00 \$ 40.70	
CARP0547-002 07/01/2009		
	Rates	Fringes
Drywall (1) Work on wood framed construction of single family residences, apartments or condominiums under four stories	3	
Drywall Installer/Lather Drywall Stocker/Scrapper (2) All other work		8.58 6.67
Drywall Installer/Lather Drywall Stocker/Scrapper	\$ 27.35 \$ 11.00	9.58 6.67
ELEC0569-001 10/01/2016		
	Rates	Fringes
Electricians (Tunnel Work) Cable Splicer Electricians: (All Other Work, Including 4 Stories Residential) Cable Splicer	\$ 47.72 \$ 46.97 \$ 42.50	3%+12.63 3%+12.63 3%+12.63
Electrician	\$ 41.75	3%+12.63

#### Attachment #5: Wage Determination - Concrete Prototype

#### ELEC0569-004 06/01/2015

Rates	Fringes
-------	---------

ELECTRICIAN (Sound &

**Communications Sound** 

Technician)...... \$ 29.55 11.92

SOUND TECHNICIAN: Terminating, operating and performing final

check-out

.....

ELEC0569-005 06/06/2016

Rates Fringes

Sound & Communications

SOUND TECHNICIAN: Terminating, operating and performing final check-out

imai eneek out

-----

Work on street lighting; traffic signals; and underground systems and/or established easements outside of buildings

	Rates	Fringes
Traffic signal, street light		
and underground work		
Utility Technician #1	\$ 29.50	8.31
Utility Technician #2	\$ 24.65	8.16

#### STREET LIGHT & TRAFFIC SIGNAL WORK:

UTILITY TECHNICIAN #1: Installation of street lights and traffic signals, including electrical circuitry, programmable controller, pedestal-mounted electrical meter enclosures and laying of pre-assembled cable in ducts. The layout of electrical systems and communication installation including proper position of trench depths, and radius at duct banks, location for manholes, street lights and traffic signals.

UTILITY TECHNICIAN #2: Distribution of material at jobsite, installation of underground ducts for electrical, telephone, cable TV land communication systems. The setting, leveling, grounding and racking of precast manholes, handholes and transformer pads.

<sup>\*</sup> ELEC0569-006 10/01/2016

-----

#### ELEC0569-008 06/06/2016

	Rates	Fringes
ELECTRICIAN (Residential, 1-3 Stories)	\$ 31.69	3%+6.61

#### ELEC1245-001 06/01/2015

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer	\$ 52.85	15.53
(2) Equipment specialist		
(operates crawler		
tractors, commercial motor		
vehicles, backhoes,		
trenchers, cranes (50 tons		
and below), overhead & underground distribution		
line equipment)	\$ 42.21	14.32
(3) Groundman	\$ 32.28	14.03
(4) Powderman	\$ 47.19	14.60

HOLIDAYS: New Year's Day, M.L. King Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day and day after Thanksgiving, Christmas Day

\_\_\_\_\_

#### ELEV0018-001 01/01/2017

	Rates	Fringes
ELEVATOR MECHANIC	\$ 52.21	31.585

#### FOOTNOTE:

PAID VACATION: Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service. PAID HOLIDAYS: New Years Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Friday after Thanksgiving, and Christmas Day.

\_\_\_\_\_

ENGI0012-003 07/01/2016

# OPERATOR: Power Equipment (All Other Work)

(Thi Other Work)		
	Rates	Fringes
GROUP 1		23.35
GROUP 2		23.35
GROUP 3		23.35
GROUP 4	\$ 42.51	23.35
GROUP 5	\$ 41.86	23.35
GROUP 6	\$ 41.83	23.35
GROUP 8	\$ 42.84	23.35
GROUP 9		23.35
GROUP 10		23.35
GROUP 11		23.35
GROUP 12	\$ 43.13	23.35
GROUP 13	\$ 43.23	23.35
GROUP 14	\$ 43.26	23.35
GROUP 15	\$ 43.34	23.35
GROUP 16	\$ 43.46	23.35
GROUP 17	\$ 43.63	23.35
GROUP 18	\$ 43.73	23.35
GROUP 19	\$ 43.84	23.35
GROUP 20	\$ 43.96	23.35
GROUP 21		23.35
GROUP 22		23.35
GROUP 23		23.35
GROUP 24		23.35
GROUP 25		23.35
OPERATOR: Power E		
(Cranes, Piledriving &	1 1	
Hoisting)		
GROUP 1	\$ 43.20	22.15
GROUP 2		22.15
GROUP 3		22.15
GROUP 4		22.15
GROUP 5		22.15
GROUP 6		22.15
GROUP 7		22.15
GROUP 8		22.15
GROUP 9		22.15
GROUP 10		22.15
GROUP 11		22.15
GROUP 12	\$ 48 20	22.15
GROUP 13	\$ 49.20	22.15
OPERATOR: Power E		22.13
(Tunnel Work)	quipinent	
GROUP 1	\$ 41.80	23.35
GROUP 2		23.35
GROUP 3		23.35
GROUP 4		23.35
GROUP 5		23.35
GROUP 6		23.35
ONOUL U	+J.J4	45.55

GROUP 7.....\$ 43.46 23.35

#### PREMIUM PAY:

\$3.75 per hour shall be paid on all Power Equipment Operator work on the followng Military Bases: China Lake Naval Reserve, Vandenberg AFB, Point Arguello, Seely Naval Base, Fort Irwin, Nebo Annex Marine Base, Marine Corp Logistics Base Yermo, Edwards AFB, 29 Palms Marine Base and Camp Pendleton

Workers required to suit up and work in a hazardous material environment: \$2.00 per hour additional. Combination mixer and compressor operator on gunite work shall be classified as a concrete mobile mixer operator.

### SEE ZONE DEFINITIONS AFTER CLASSIFICATIONS

## POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Bargeman; Brakeman; Compressor operator; Ditch Witch, with seat or similar type equipment; Elevator operator-inside; Engineer Oiler; Forklift operator (includes loed, lull or similar types under 5 tons; Generator operator; Generator, pump or compressor plant operator; Pump operator; Signalman; Switchman

GROUP 2: Asphalt-rubber plant operator (nurse tank operator); Concrete mixer operator-skip type; Conveyor operator; Fireman; Forklift operator (includes loed, lull or similar types over 5 tons; Hydrostatic pump operator; oiler crusher (asphalt or concrete plant); Petromat laydown machine; PJU side dum jack; Screening and conveyor machine operator (or similar types); Skiploader (wheel type up to 3/4 yd. without attachment); Tar pot fireman; Temporary heating plant operator; Trenching machine oiler

GROUP 3: Asphalt-rubber blend operator; Bobcat or similar type (Skid steer); Equipment greaser (rack); Ford Ferguson (with dragtype attachments); Helicopter radioman (ground); Stationary pipe wrapping and cleaning machine operator

GROUP 4: Asphalt plant fireman; Backhoe operator (mini-max or similar type); Boring machine operator; Boxman or mixerman (asphalt or concrete); Chip spreading machine operator; Concrete cleaning decontamination machine operator; Concrete Pump Operator (small portable); Drilling machine operator, small auger types (Texoma super economatic or similar types - Hughes 100 or 200 or similar types - drilling depth of 30' maximum); Equipment greaser (grease truck); Guard rail post driver operator; Highline cableway signalman; Hydra-hammer-aero stomper; Micro Tunneling

(above ground tunnel); Power concrete curing machine operator; Power concrete saw operator; Power-driven jumbo form setter operator; Power sweeper operator; Rock Wheel Saw/Trencher; Roller operator (compacting); Screed operator (asphalt or concrete); Trenching machine operator (up to 6 ft.); Vacuum or much truck

## GROUP 5: Equipment Greaser (Grease Truck/Multi Shift).

GROUP 6: Articulating material hauler; Asphalt plant engineer; Batch plant operator; Bit sharpener; Concrete joint machine operator (canal and similar type); Concrete planer operator; Dandy digger; Deck engine operator; Derrickman (oilfield type); Drilling machine operator, bucket or auger types (Calweld 100 bucket or similar types - Watson 1000 auger or similar types - Texoma 330, 500 or 600 auger or similar types - drilling depth of 45' maximum): Drilling machine operator: Hydrographic seeder machine operator (straw, pulp or seed), Jackson track maintainer, or similar type; Kalamazoo Switch tamper, or similar type; Machine tool operator; Maginnis internal full slab vibrator, Mechanical berm, curb or gutter(concrete or asphalt); Mechanical finisher operator (concrete, Clary-Johnson-Bidwell or similar); Micro tunnel system (below ground); Pavement breaker operator (truck mounted); Road oil mixing machine operator; Roller operator (asphalt or finish), rubber-tired earth moving equipment (single engine, up to and including 25 vds. struck); Self-propelled tar pipelining machine operator; Skiploader operator (crawler and wheel type, over 3/4 yd. and up to and including 1-1/2 yds.); Slip form pump operator (power driven hydraulic lifting device for concrete forms); Tractor operator-bulldozer, tamper-scraper (single engine, up to 100 h.p. flywheel and similar types, up to and including D-5 and similar types); Tugger hoist operator (1 drum); Ultra high pressure waterjet cutting tool system operator; Vacuum blasting machine operator

GROUP 8: Asphalt or concrete spreading operator (tamping or finishing); Asphalt paving machine operator (Barber Greene or similar type); Asphalt-rubber distribution operator; Backhoe operator (up to and including 3/4 yd.), small ford, Case or similar; Cast-in-place pipe laying machine operator; Combination mixer and compressor operator (gunite work); Compactor operator (self-propelled); Concrete mixer operator (paving); Crushing plant operator; Drill Doctor; Drilling machine operator, Bucket or auger types (Calweld 150 bucket or similar types - Watson 1500, 2000 2500 auger or similar types - Texoma 700, 800 auger or similar types - drilling depth of 60' maximum); Elevating grader operator; Grade checker; Gradall operator; Grouting machine operator;

Heavy-duty repairman; Heavy equipment robotics operator; Kalamazoo balliste regulator or similar type; Kolman belt loader and similar type; Le Tourneau blob compactor or similar type; Loader operator (Athey, Euclid, Sierra and similar types); Mobark Chipper or similar; Ozzie padder or similar types; P.C. slot saw; Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pumpcrete gun operator; Rock Drill or similar types; Rotary drill operator (excluding caisson type); Rubber-tired earth-moving equipment operator (single engine, caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator (multiple engine up to and including 25 vds. struck); Rubber-tired scraper operator (self-loading paddle wheel type-John Deere, 1040 and similar single unit); Selfpropelled curb and gutter machine operator; Shuttle buggy; Skiploader operator (crawler and wheel type over 1-1/2 vds. up to and including 6-1/2 yds.); Soil remediation plant operator; Surface heaters and planer operator; Tractor compressor drill combination operator; Tractor operator (any type larger than D-5 - 100 flywheel h.p. and over, or similar-bulldozer, tamper, scraper and push tractor single engine); Tractor operator (boom attachments), Traveling pipe wrapping, cleaning and bendng machine operator; Trenching machine operator (over 6 ft. depth capacity, manufacturer's rating); trenching Machine with Road Miner attachment (over 6 ft depth capacity): Ultra high pressure waterjet cutting tool system mechanic; Water pull (compaction) operator

#### GROUP 9: Heavy Duty Repairman

GROUP 10: Drilling machine operator, Bucket or auger types (Calweld 200 B bucket or similar types-Watson 3000 or 5000 auger or similar types-Texoma 900 auger or similar types-drilling depth of 105' maximum); Dual drum mixer, dynamic compactor LDC350 (or similar types); Monorail locomotive operator (diesel, gas or electric); Motor patrol-blade operator (single engine); Multiple engine tractor operator (Euclid and similar type-except Quad 9 cat.); Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Pneumatic pipe ramming tool and similar types; Prestressed wrapping machine operator; Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Rubber tired earth moving equipment operator (multiple engine, Euclid, caterpillar and similar over 25 yds. and up to 50 yds. struck), Tower crane repairman; Tractor loader operator (crawler and wheel type over 6-1/2 yds.); Woods mixer operator (and similar Pugmill equipment)

GROUP 11: Heavy Duty Repairman - Welder Combination, Welder - Certified.

GROUP 12: Auto grader operator; Automatic slip form operator; Drilling machine operator, bucket or auger types (Calweld, auger 200 CA or similar types - Watson, auger 6000 or similar types - Hughes Super Duty, auger 200 or similar types - drilling depth of 175' maximum); Hoe ram or similar with compressor; Mass excavator operator less tha 750 cu. yards; Mechanical finishing machine operator; Mobile form traveler operator; Motor patrol operator (multi-engine); Pipe mobile machine operator; Rubber-tired earth- moving equipment operator (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck); Rubber-tired self-loading scraper operator (paddle-wheel-auger type self-loading - two (2) or more units)

GROUP 13: Rubber-tired earth-moving equipment operator operating equipment with push-pull system (single engine, up to and including 25 yds. struck)

GROUP 14: Canal liner operator; Canal trimmer operator; Remote- control earth-moving equipment operator (operating a second piece of equipment: \$1.00 per hour additional); Wheel excavator operator (over 750 cu. yds.)

GROUP 15: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine-up to and including 25 yds. struck)

GROUP 16: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 17: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 50 cu. yds. struck); Tandem tractor operator (operating crawler type tractors in tandem - Quad 9 and similar type)

GROUP 18: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units -

single engine, up to and including 25 yds. struck)

GROUP 19: Rotex concrete belt operator (or similar types); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds.and up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, up to and including 25 yds. struck)

GROUP 20: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 21: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

GROUP 22: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, up to and including 25 yds. struck)

GROUP 23: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating with the tandem push-pull system (multiple engine, up to and including 25 yds. struck)

GROUP 24: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 25: Concrete pump operator-truck mounted; Rubber-tired

earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

## CRANES, PILEDRIVING AND HOISTING EQUIPMENT CLASSIFICATIONS

GROUP 1: Engineer oiler; Fork lift operator (includes loed, lull or similar types)

GROUP 2: Truck crane oiler

GROUP 3: A-frame or winch truck operator; Ross carrier operator (jobsite)

GROUP 4: Bridge-type unloader and turntable operator; Helicopter hoist operator

GROUP 5: Hydraulic boom truck; Stinger crane (Austin-Western or similar type); Tugger hoist operator (1 drum)

GROUP 6: Bridge crane operator; Cretor crane operator; Hoist operator (Chicago boom and similar type); Lift mobile operator; Lift slab machine operator (Vagtborg and similar types); Material hoist and/or manlift operator; Polar gantry crane operator; Self Climbing scaffold (or similar type); Shovel, backhoe, dragline, clamshell operator (over 3/4 yd. and up to 5 cu. yds. mrc); Tugger hoist operator

GROUP 7: Pedestal crane operator; Shovel, backhoe, dragline, clamshell operator (over 5 cu. yds. mrc); Tower crane repair; Tugger hoist operator (3 drum)

GROUP 8: Crane operator (up to and including 25 ton capacity); Crawler transporter operator; Derrick barge operator (up to and including 25 ton capacity); Hoist operator, stiff legs, Guy derrick or similar type (up to and including 25 ton capacity); Shovel, backhoe, dragline, clamshell operator (over 7 cu. yds., M.R.C.)

GROUP 9: Crane operator (over 25 tons and up to and including 50 tons mrc); Derrick barge operator (over 25 tons up to and including 50 tons mrc); Highline cableway operator; Hoist operator, stiff legs, Guy derrick or similar type (over 25 tons up to and including 50 tons mrc); K-crane operator; Polar crane operator; Self erecting tower crane operator maximum lifting capacity ten tons

GROUP 10: Crane operator (over 50 tons and up to and including 100 tons mrc); Derrick barge operator (over 50 tons up to and including 100 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 50 tons up to

and including 100 tons mrc), Mobile tower crane operator (over 50 tons, up to and including 100 tons M.R.C.); Tower crane operator and tower gantry

GROUP 11: Crane operator (over 100 tons and up to and including 200 tons mrc); Derrick barge operator (over 100 tons up to and including 200 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 100 tons up to and including 200 tons mrc); Mobile tower crane operator (over 100 tons up to and including 200 tons mrc)

GROUP 12: Crane operator (over 200 tons up to and including 300 tons mrc); Derrick barge operator (over 200 tons up to and including 300 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 200 tons, up to and including 300 tons mrc); Mobile tower crane operator (over 200 tons, up to and including 300 tons mrc)

GROUP 13: Crane operator (over 300 tons); Derrick barge operator (over 300 tons); Helicopter pilot; Hoist operator, stiff legs, Guy derrick or similar type (over 300 tons); Mobile tower crane operator (over 300 tons)

## TUNNEL CLASSIFICATIONS

GROUP 1: Skiploader (wheel type up to 3/4 yd. without attachment)

GROUP 2: Power-driven jumbo form setter operator

GROUP 3: Dinkey locomotive or motorperson (up to and including 10 tons)

GROUP 4: Bit sharpener; Equipment greaser (grease truck); Slip form pump operator (power-driven hydraulic lifting device for concrete forms); Tugger hoist operator (1 drum); Tunnel locomotive operator (over 10 and up to and including 30 tons)

GROUP 5: Backhoe operator (up to and including 3/4 yd.); Small Ford, Case or similar; Drill doctor; Grouting machine operator; Heading shield operator; Heavy-duty repairperson; Loader operator (Athey, Euclid, Sierra and similar types); Mucking machine operator (1/4 yd., rubber-tired, rail or track type); Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pneumatic heading shield (tunnel); Pumpcrete gun operator; Tractor compressor drill combination operator; Tugger hoist operator (2 drum); Tunnel locomotive operator (over 30 tons)

GROUP 6: Heavy Duty Repairman

GROUP 7: Tunnel mole boring machine operator

#### **ENGINEERS ZONES**

\$1.00 additional per hour for all of IMPERIAL County and the portions of KERN, RIVERSIDE & SAN BERNARDINO Counties as defined below:

That area within the following Boundary: Begin in San Bernardino County, approximately 3 miles NE of the intersection of I-15 and the California State line at that point which is the NW corner of Section 1, T17N,m R14E, San Bernardino Meridian. Continue W in a straight line to that point which is the SW corner of the northwest quarter of Section 6, T27S, R42E, Mt. Diablo Meridian. Continue North to the intersection with the Inyo County Boundary at that point which is the NE corner of the western half of the northern quarter of Section 6, T25S, R42E, MDM. Continue W along the Inyo and San Bernardino County boundary until the intersection with Kern County, as that point which is the SE corner of Section 34, T24S, R40E, MDM. Continue W along the Inyo and Kern County boundary until the intersection with Tulare County, at that point which is the SW corner of the SE quarter of Section 32, T24S, R37E, MDM. Continue W along the Kern and Tulare County boundary, until that point which is the NW corner of T25S, R32E, MDM. Continue S following R32E lines to the NW corner of T31S, R32E, MDM. Continue W to the NW corner of T31S, R31E, MDM. Continue S to the SW corner of T32S, R31E, MDM. Continue W to SW corner of SE quarter of Section 34, T32S, R30E, MDM. Continue S to SW corner of T11N, R17W, SBM. Continue E along south boundary of T11N, SBM to SW corner of T11N, R7W, SBM. Continue S to SW corner of T9N, R7W, SBM. Continue E along south boundary of T9N, SBM to SW corner of T9N, R1E, SBM. Continue S along west boundary of R1E, SMB to Riverside County line at the SW corner of T1S, R1E, SBM. Continue E along south boundary of T1s, SBM (Riverside County Line) to SW corner of T1S, R10E, SBM. Continue S along west boundary of R10E, SBM to Imperial County line at the SW corner of T8S, R10E, SBM. Continue W along Imperial and Riverside county line to NW corner of T9S, R9E, SBM. Continue S along the boundary between Imperial and San Diego Counties, along the west edge of R9E, SBM to the south boundary of Imperial County/California state line. Follow the California state line west to Arizona state line, then north to Nevada state line, then continuing NW back to start at the point which is the NW corner of Section 1, T17N, R14E, SBM

\$1.00 additional per hour for portions of SAN LUIS OBISPO, KERN, SANTA BARBARA & VENTURA as defined below:

That area within the following Boundary: Begin approximately 5 miles north of the community of Cholame, on the Monterey County and San Luis Obispo County boundary at the NW corner of T25S, R16E, Mt. Diablo Meridian. Continue south along the west side of R16E to the SW corner of T30S, R16E, MDM. Continue E to SW corner of T30S, R17E, MDM. Continue S to SW corner of T31S, R17E, MDM. Continue E to SW corner of T31S, R18E, MDM. Continue S along West side of R18E, MDM as it crosses into San Bernardino Meridian numbering area and becomes R30W. Follow the west side of R30W, SBM to the SW corner of T9N, R30W, SBM. Continue E along the south edge of T9N, SBM to the Santa Barbara County and Ventura County boundary at that point whch is the SW corner of Section 34.T9N, R24W, SBM, continue S along the Ventura County line to that point which is the SW corner of the SE quarter of Section 32, T7N, R24W, SBM. Continue E along the south edge of T7N, SBM to the SE corner to T7N, R21W, SBM. Continue N along East side of R21W, SBM to Ventura County and Kern County boundary at the NE corner of T8N, R21W. Continue W along the Ventura County and Kern County boundary to the SE corner of T9N, R21W. Continue North along the East edge of R21W, SBM to the NE corner of T12N, R21W, SBM. Continue West along the north edge of T12N, SBM to the SE corner of T32S, R21E, MDM. [T12N SBM is a think strip between T11N SBM and T32S MDM]. Continue North along the East side of R21E, MDM to the Kings County and Kern County border at the NE corner of T25S, R21E, MDM, continue West along the Kings County and Kern County Boundary until the intersection of San Luis Obispo County. Continue west along the Kings County and San Luis Obispo County boundary until the intersection with Monterey County. Continue West along the Monterey County and San Luis Obispo County boundary to the beginning point at the NW corner of T25S, R16E, MDM.

\$2.00 additional per hour for INYO and MONO Counties and the Northern portion of SAN BERNARDINO County as defined below:

That area within the following Boundary: Begin at the intersection of the northern boundary of Mono County and the California state line at the point which is the center of Section 17, T10N, R22E, Mt. Diablo Meridian. Continue S then SE along the entire western boundary of Mono County, until it reaches Inyo County at the point which is the NE corner of the Western half of the NW quarter of Section 2, T8S, R29E, MDM. Continue SSE along the entire western boundary of Inyo County, until the intersection with Kern County at the point which is the SW corner of the SE 1/4 of Section 32, T24S, R37E, MDM. Continue E along the Inyo and Kern County boundary until the intersection with San Bernardino County at that point which is the SE corner of section 34, T24S, R40E, MDM. Continue E along the Inyo and San Bernardino County boundary until the point

which is the NE corner of the Western half of the NW quarter of Section 6, T25S, R42E, MDM. Continue S to that point which is the SW corner of the NW quarter of Section 6, T27S, R42E, MDM. Continue E in a straight line to the California and Nevada state border at the point which is the NW corner of Section 1, T17N, R14E, San Bernardino Meridian. Then continue NW along the state line to the starting point, which is the center of Section 18, T10N, R22E, MDM.

## REMAINING AREA NOT DEFINED ABOVE RECIEVES BASE RATE

-----

ENGI00	12-004	08/01	l/2015

	Rates	Fringes
OPERATOR: Power Equipme	ent	
(DREDGING)		
(1) Leverman	\$ 49.50	23.60
(2) Dredge dozer	\$ 43.53	23.60
(3) Deckmate	\$ 43.42	23.60
(4) Winch operator (stern		
winch on dredge)	\$ 42.87	23.60
(5) Fireman-Oiler,		
Deckhand, Bargeman,		
Leveehand	\$ 42.33	23.60
(6) Barge Mate	\$ 42.94	23.60

## IRON0377-002 07/01/2016

	Rates	Fringes
Ironworkers:		
Fence Erector	\$ 28.33	20.64
Ornamental, Reinforcing and Structural	\$ 34.75	29.20

## PREMIUM PAY:

\$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland,

Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

\$4.00 additional per hour at the following locations:

Army Defense Language Institute - Monterey, Fallon Air Base, Naval Post Graduate School - Monterey, Yermo Marine Corps Logistics Center

\$2.00 additional per hour at the following locations:

Port Hueneme, Port Mugu, U.S. Coast Guard Station - Two Rock

-----

### LABO0089-001 07/18/2016

	Rates	Fringes
LABORER (BUILDING and al	1	
other Residential		
Construction)		
Group 1	\$ 29.42	19.78
Group 2	.\$ 30.10	19.78
Group 3	\$ 30.81	19.78
Group 4	\$ 31.61	19.78
Group 5	\$ 33.54	19.78
LABORER (RESIDENTIAL		
<b>CONSTRUCTION - See definit</b>	ion	
below)		
(1) Laborer	\$ 27.32	18.11
(2) Cleanup, Landscape,		
Fencing (Chain Link & Woo	d).\$ 26.03	18.11

RESIDENTIAL DEFINITION: Wood or metal frame construction of single family residences, apartments and condominums - excluding (a) projects that exceed three stories over a garage level, (b) any utility work such as telephone, gas, water, sewer and other utilities and (c) any fine grading work, utility work or paving work in the future street and public right-of-way; but including all rough grading work at the job site behind the existing right of way

## LABORER CLASSIFICATIONS

GROUP 1: Cleaning and handling of panel forms; Concrete Screeding for Rought Strike-off; Concrete, water curing; Demolition laborer; Flagman; Gas, oil and/or water pipeline laborer; General Laborer; General clean-up laborer; Landscape laborer; Jetting laborer; Temporary water and air lines laborer; Material hoseman (walls, slabs, floors and decks); Plugging, filling of Shee-bolt holes; Dry packing of concrete; Railroad maintenance, Repair Trackman and road beds, Streetcar and railroad construction trac laborers; Slip form raisers; Slurry seal crews (mixer operator, applicator operator, squeegee man, Shuttle man,

top man), filling of cracks by any method on any surface; Tarman and mortar man; Tool crib or tool house laborer; Window cleaner; Wire Mesh puling-all concrete pouring operations

GROUP 2: Asphalt Shoveler; Cement Dumper (on 1 yard or larger mixer and handling bulk cement); Cesspool digger and installer; Chucktender; Chute man, pouring concrete, the handling of the cute from ready mix trucks, such as walls, slabs, decks, floors, foundations, footings, curbs, gutters and sidewalks; Concrete curer-impervious membrane and form oiler; Cutting torch operator (demoliton); Guinea chaser; Headboard man-asphlt; Laborer, packing rod steel and pans; membrane vapor barrier installer; Power broom sweepers (small); Riiprap, stonepaver, placing stone or wet sacked concrete; Roto scraper and tiller; Tank sealer and cleaner; Tree climber, faller, chain saw operator, Pittsburgh Chipper and similar type brush shredders; Underground laborers, including caisson bellower

GROUP 3: Buggymobile; Concrete cutting torch; Concrete cutting torch; Concrete pile cutter; Driller, jackhammer, 2 1/2 feet drill steel or longer; Dri Pak-it machine; High sealer (including drilling of same); Hydro seeder and similar type; Impact wrench, mult-plate; Kettlemen, potmen and mean applying asphalt, lay-kold, creosote, line caustic and similar type materials (applying means applying, dipping, brushing or handling of such materials for pipe wrapping and waterproofing); Operators of pneumatic, gas, electric tools, vibratring machines, pavement breakers, air blasting, come-along, and similar mechanical tools not separately classified herein; Pipelayers back up man coating, grouting, making of joints, sealing, caulking, diapering and inclduing rubber gasket joints, pointing and any and all other services; Rotary Scarifier or multiple head concrete chipping scaarifier; Steel header board man and guideline setter; Tampers, Barko, Wacker and similar type; Trenching machine, handpropelled

GROUP 4: Asphalt raker, luterman, ironer, apshalt dumpman and asphalt spreader boxes (all types); Concrete core cutter (walls, floors or ceilings), Grinder or sander; Concrete saw man; cutting walls or flat work, scoring old or new concrete; Cribber, shorer, lagging, sheeting and trench bracing, hand-guided lagging hammer; Laser beam in connection with laborer's work; Oversize concrete vibrator operator 70 pounds and over; Pipelayer performing all services in the laying, installation and all forms of connection of pipe from the point of receiving pipe in the ditch until completion of oepration, including any and all forms of tubular material, whether pipe, metallic or

non-metallic, conduit, and any other stationary type of tubular device used for the conveying of any substance or element, whether water, sewage, solid, gas, air or other product whatsoever and without regard to the nature of material from which the tubular material is fabricated; No joint pipe and stripping of same; Prefabricated manhole installer; Sandblaster (nozzleman), Porta shot-blast, water blasting

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all pwder and explosives of whatever type, regardless of method used for such loading and placing; Driller-all power drills, excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and any and all other types of mechanical drills without regard to the form of motive power.

-----

LABO0089-002 11/01/2016

Rates Fringes

LABORER (MASON TENDER)......\$ 29.62 15.89

-----

LABO0089-004 07/03/2016

## HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
Laborers:		
Group 1	\$ 30.54	17.89
Group 2	\$ 31.00	17.89
Group 3	\$ 31.41	17.89
Group 4	\$ 32.25	17.89
Group 5		17.89

#### LABORER CLASSIFICATIONS

GROUP 1: Laborer: General or Construction Laborer, Landscape Laborer. Asphalt Rubber Material Loader. Boring Machine Tender (outside), Carpenter Laborer (cleaning, handling, oiling & blowing of panel forms and lumber), Concrete Laborer, Concrete Screeding for rough strike-off, Concrete water curing. Concrete Curb & Gutter laborer, Certified Confined Space Laborer, Demolition laborer & Cleaning of Brick and lumber, Expansion Joint Caulking; Environmental Remediation, Monitoring Well, Toxic waste and Geotechnical Drill tender, Fine Grader, Fire Watcher, Limbers, Brush Loader, Pilers and Debris Handlers. flagman. Gas Oil and Water Pipeline Laborer. Material Hoseman (slabs, walls,

floors, decks); Plugging, filling of shee bolt holes; Dry packing of concrete and patching; Post Holer Digger (manual); Railroad maintenance, repair trackman, road beds; Rigging & signaling; Scaler, Slip-Form Raisers, Filling cracks on any surface, tool Crib or Tool House Laborer, Traffic control (signs, barriers, barricades, delineator, cones etc.), Window Cleaner

GROUP 2: Asphalt abatement; Buggymobile; Cement dumper (on 1 yd. or larger mixers and handling bulk cement); Concrete curer, impervious membrane and form oiler: Chute man. pouring concrete; Concrete cutting torch; Concrete pile cutter; driller/Jackhammer, with drill steel 2 1/2 feet or longer; Dry pak-it machine; Fence erector; Pipeline wrapper, gas, oil, water, pot tender & form man; Grout man; Installation of all asphalt overlay fabric and materials used for reinforcing asphalt; Irrigation laborer; Kettleman-Potman hot mop, includes applying asphalt. lay-klold, creosote, lime caustic and similar tyhpes of materials (dipping, brushing, handling) and waterproofing; Membrane vapor barrier installer; Pipelayer backup man (coating, grouting, making of joints, sealing caulkiing, diapering including rubber basket joints, pointing); Rotary scarifier, multiple head concrete chipper; Rock slinger; Roto scraper & tiller; Sandblaster pot tender; Septic tank digger/installer; Tamper/wacker operator; Tank scaler & cleaner; Tar man & mortar man; Tree climber/faller, chainb saw operator, Pittsburgh chipper & similar type brush shredders.

GROUP 3: Asphalt, installation of all frabrics; Buggy Mobile Man, Bushing hammer; Compactor (all types), Concrete Curer - Impervious membrane, Form Oiler, Concrete Cutting Torch, Concrete Pile Cutter, Driller/Jackhammer with drill steel 2 1/2 ft or longer, Dry Pak-it machine, Fence erector including manual post hole digging, Gas oil or water Pipeline Wrapper - 6 ft pipe and over, Guradrail erector, Hydro seeder, Impact Wrench man (multi plate), kettleman-Potman Hot Mop includes applying Asphalt, Lay-Kold, Creosote, lime caustic and similar types of materials (dipping, brushing or handling) and waterproofing. Laser Beam in connection with Laborer work. High Scaler, Operators of Pneumatic Gas or Electric Tools, Vibrating Machines, Pavement Breakers, Air Blasting, Come-Alongs and similar mechanical tools, Remote-Controlled Robotic Tools in connection with Laborers work. Pipelayer Backup Man (Coating, grouting, m makeing of joints, sealing, caulking, diapering including rubber gasket joints, pointing and other services). Power Post Hole Digger, Rotary Scarifier (multiple head concrete chipper scarifier), Rock Slinger, Shot Blast equipment (8 to 48

inches), Steel Headerboard Man and Guideline Setter, Tamper/Wacker operator and similar types, Trenching Machine hand propelled.

GROUP 4: Any worker exposed to raw sewage. Asphalt Raker, Luteman, Asphalt Dumpman, Asphalt Spreader Boxes, Concrete Core Cutter, Concrete Saw Man, Cribber, Shorer, Head Rock Slinger. Installation of subsurface instrumentation, monitoring wells or points, remediation system installer; Laborer, asphalt-rubber distributor bootman; Oversize concrete vibrator operators, 70 pounds or over. Pipelayer, Prfefabricated Manhole Installer, Sandblast Nozzleman (Water Balsting-Porta Shot Blast), Traffic Lane Closure.

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Horizontal directional driller, Boring system, Electronic traking, Driller: all power drills excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and all other types of mechanical drills without regard to form of motive power. Environmental remediation, Monitoring well, Toxic waste and Geotechnical driller, Toxic waste removal. Welding in connection with Laborer's work.

-----

LABO0300-005 01/01/2017

Rates Fringes

Asbestos Removal Laborer......\$ 31.88 16.82

SCOPE OF WORK: Includes site mobilization, initial site cleanup, site preparation, removal of asbestos-containing material and toxic waste, encapsulation, enclosure and disposal of asbestos- containing materials and toxic waste by hand or with equipment or machinery; scaffolding, fabrication of temporary wooden barriers and assembly of decontamination stations.

-----

LABO1184-001 07/04/2016

Rates Fringes

Laborers: (HORIZONTAL DIRECTIONAL DRILLING)

(1) Drilling Crew Laborer...\$ 33.65(2) Vehicle Operator/Hauler.\$ 33.8213.95

(3) Horizontal Directional

Drill Operator	\$ 35.67	13.95
(4) Electronic Tra	cking	
Locator	\$ 37.67	13.95
Laborers: (STRIPING	G/SLURRY	
SEAL)		
GROUP 1	\$ 34.86	17.03
GROUP 2	\$ 36.16	17.03
GROUP 3	\$ 38.17	17.03
GROUP 4	\$ 39.91	17.03

#### LABORERS - STRIPING CLASSIFICATIONS

GROUP 1: Protective coating, pavement sealing, including repair and filling of cracks by any method on any surface in parking lots, game courts and playgrounds; carstops; operation of all related machinery and equipment; equipment repair technician

GROUP 2: Traffic surface abrasive blaster; pot tender removal of all traffic lines and markings by any method (sandblasting, waterblasting, grinding, etc.) and preparation of surface for coatings. Traffic control person: controlling and directing traffic through both conventional and moving lane closures; operation of all related machinery and equipment

GROUP 3: Traffic delineating device applicator: Layout and application of pavement markers, delineating signs, rumble and traffic bars, adhesives, guide markers, other traffic delineating devices including traffic control. This category includes all traffic related surface preparation (sandblasting, waterblasting, grinding) as part of the application process. Traffic protective delineating system installer: removes, relocates, installs, permanently affixed roadside and parking delineation barricades, fencing, cable anchor, guard rail, reference signs, monument markers; operation of all related machinery and equipment; power broom sweeper

GROUP 4: Striper: layout and application of traffic stripes and markings; hot thermo plastic; tape traffic stripes and markings, including traffic control; operation of all related machinery and equipment

.----

LABO1414-003 08/03/2016

Rates Fringes

**LABORER** 

PLASTER CLEAN-UP LABORER....\$ 31.60 19.28

PLASTER TENDER......\$ 34.15 19.28

Work on a swing stage scaffold: \$1.00 per hour additional.

Work at Military Bases - \$3.00 additional per hour:
Coronado Naval Amphibious Base, Fort Irwin, Marine Corps Air
Station-29 Palms, Imperial Beach Naval Air Station, Marine
Corps Logistics Supply Base, Marine Corps Pickle Meadows,
Mountain Warfare Training Center, Naval Air
Facility-Seeley, North Island Naval Air Station, Vandenberg
AFB.

.----

#### PAIN0036-001 07/01/2015

Rates Fringes

Painters: (Including Lead

Abatement)

(1) Repaint (excludes San

Diego County)......\$ 27.29 12.83 (2) All Other Work......\$ 30.72 12.83

REPAINT of any previously painted structure. Exceptions: work involving the aerospace industry, breweries, commercial recreational facilities, hotels which operate commercial establishments as part of hotel service, and sports facilities.

Rates

Fringes

\_\_\_\_\_

#### PAIN0036-010 10/01/2015

DRYWALL FINISHER/TAPE	R	
(1) Building & Heavy		
Construction	\$ 27.84	15.20
(2) Residential		
Construction (Wood frame		
apartments, single family		
homes and multi-duplexes		
up to and including four		
stories)	\$ 21.00	13.91

#### PAIN0036-012 10/01/2016

	Rates	Fringes
GLAZIER	\$ 41.55	11.93

PAIN0036-019 01/01/2017

Rates Fringes SOFT FLOOR LAYER.....\$28.77 13.31 PLAS0200-005 08/06/2015 Rates Fringes PLASTERER..... \$ 38.44 13.77 NORTH ISLAND NAVAL AIR STATION, COLORADO NAVAL AMPHIBIOUS BASE, IMPERIAL BEACH NAVAL AIR STATION: \$3.00 additional per hour. PLAS0500-001 07/01/2016 Rates Fringes CEMENT MASON/CONCRETE FINISHER GROUP 1.....\$ 23.84 21.17 GROUP 2.....\$ 25.49 21.17 GROUP 3.....\$ 27.57 21.17 CEMENT MASONS - work inside the building line, meeting the following criteria: GROUP 1: Residential wood frame project of any size; work classified as Type III, IV or Type V construction; interior tenant improvement work regardless the size of the project; any wood frame project of four stories or less. GROUP 2: Work classified as type I and II construction GROUP 3: All other work PLUM0016-006 07/01/2016 Rates Fringes PLUMBER, PIPEFITTER, **STEAMFITTER** \$ 51.69 21.41 Camp Pendleton..... Plumber and Pipefitter All other work except work on new additions and

remodeling of bars, restaurant, stores and commercial buildings not

to exceed 5,000 sq. ft. of floor space and work on strip malls, light commercial, tenant improvement and remodel work	\$ 47.19 ons	21.41
bars, restaurants, and stores not to exceed 5,000 sq. ft. of floor space Work ONLY on strip malls, light commercial, tenant improvement and remodel work	\$ 45.73 \$ 35.69	20.43
PLUM0016-011 07/01/2016		
	Rates	Fringes
PLUMBER/PIPEFITTER Residential	\$ 38.17	17.33
PLUM0345-001 07/01/2014		
	Rates	Fringes
PLUMBER  Landscape/Irrigation Fitter.  Sewer & Storm Drain Work.	\$ 29.27	Fringes 19.75 17.13
Landscape/Irrigation Fitter.	\$ 29.27	19.75
Landscape/Irrigation Fitter. Sewer & Storm Drain Work.	\$ 29.27	19.75
Landscape/Irrigation Fitter. Sewer & Storm Drain Work.	\$ 29.27 \$ 33.24	19.75 17.13 
Landscape/Irrigation Fitter. Sewer & Storm Drain Work. ROOF0045-001 07/01/2014	\$ 29.27 \$ 33.24 	19.75 17.13 
Landscape/Irrigation Fitter. Sewer & Storm Drain Work. ROOF0045-001 07/01/2014  ROOFER	\$ 29.27 \$ 33.24 	19.75 17.13 
Landscape/Irrigation Fitter. Sewer & Storm Drain Work. ROOF0045-001 07/01/2014  ROOFER	\$ 29.27 \$ 33.24 Rates .\$ 27.73	19.75 17.13 Fringes 8.12 Fringes
Landscape/Irrigation Fitter. Sewer & Storm Drain Work. ROOF0045-001 07/01/2014  ROOFER SFCA0669-001 04/01/2016	\$ 29.27 \$ 33.24 Rates .\$ 27.73	19.75 17.13 Fringes 8.12 Fringes
Landscape/Irrigation Fitter. Sewer & Storm Drain Work. ROOF0045-001 07/01/2014  ROOFERSFCA0669-001 04/01/2016  SPRINKLER FITTER	\$ 29.27 \$ 33.24 Rates .\$ 27.73	19.75 17.13 Fringes 8.12 Fringes

Sheet Metal Technician..... \$ 25.22 6.69

#### SHEET METAL TECHNICIAN - SCOPE:

a. Existing residential buildings, both single and multi-family, where each unit is heated and/or cooled by a separate system b. New single family residential buildings including tracts. c. New multi-family residential buildings, not exceeding five stories of living space in height, provided each unit is heated or cooled by a separate system. Hotels and motels are excluded. d. LIGHT COMMERCIAL WORK: Any sheet metal, heating and air conditioning work performed on a project where the total construction cost, excluding land, is under \$1,000,000 e. TENANT IMPROVEMENT WORK: Any work necessary to finish interior spaces to conform to the occupants of commercial buildings, after completion of the building shell

.\_\_\_\_

#### TEAM0036-001 07/04/2016

	Rates	Fringes
Truck drivers:		
GROUP 1	\$ 15.90	30.69
GROUP 2	\$ 23.49	30.69
GROUP 3	\$ 23.69	30.69
GROUP 4	\$ 23.89	30.69
GROUP 5	\$ 24.09	30.69
GROUP 6	\$ 24.59	30.69
GROUP 7	\$ 26.09	30.69

FOOTNOTE: HAZMAT PAY: Work on a hazmat job, where hazmat certification is required, shall be paid, in addition to the classification working in, as follows: Levels A, B and C - +\$1.00 per hour. Workers shall be paid hazmat pay in increments of four (4) and eight (8) hours.

## TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Fuel Man, Swamper

GROUP 2: 2-axle Dump Truck, 2-axle Flat Bed, Concrete Pumping Truck, Industrial Lift Truck, Motorized Traffic Control, Pickup Truck on Jobsite

GROUP 3: 2-axle Water Truck, 3-axle Dump Truck, 3-axle Flat Bed, Erosion Control Nozzleman, Dump Crete Truck under 6.5 yd, Forklift 15,000 lbs and over, Prell Truck, Pipeline Work Truck Driver, Road Oil Spreader, Cement Distributor or Slurry Driver, Bootman, Ross Carrier GROUP 4: Off-road Dump Truck under 35 tons 4-axles but less than 7-axles, Low-Bed Truck & Trailer, Transit Mix Trucks under 8 yd, 3-axle Water Truck, Erosion Control Driver, Grout Mixer Truck, Dump Crete 6.5yd and over, Dumpster Trucks, DW 10, DW 20 and over, Fuel Truck and Dynamite, Truck Greaser, Truck Mounted Mobile Sweeper 2-axle Winch Truck

GROUP 5: Off-road Dump Truck 35 tons and over, 7-axles or more, Transit Mix Trucks 8 yd and over, A-Frame Truck, Swedish Cranes

GROUP 6: Off-Road Special Equipment (including but not limited to Water Pull Tankers, Athey Wagons, DJB, B70 Wuclids or like Equipment)

GROUP 7: Repairman

-----

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

\_\_\_\_\_\_

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

.....

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

#### Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

## Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

\_\_\_\_\_

#### WAGE DETERMINATION APPEALS PROCESS

- 1.) Has there been an initial decision in the matter? This can be:
- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations Wage and Hour Division U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an

interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

## Attachment #6:

SF-24 Bid Bond

			DATE BOND EXECUTED (Must not be later than bid opening date)  OMB Control Number: 9000-004			nher: 9000-0045			
	(See	instructions on		uate		Expiration Date: 7			
1995 9000 sugg	5. You do not ne 0-0045. We esti	eed to answer these qu mate that it will take 25 cing this burden, or an	estions unless we dis minutes to read the i	play a val	id Office of Management s, gather the facts, and a	t and Budget (Of answer the ques	MB) control number tions. Send only of	2 of the Paperwork Reducer. The OMB control numbers are the comments relating to our tile latory Secretariat Division	per for this collection is
PRIN	ICIPAL (Legal n	ame and business add	lress)				TYPE OF ORG	ANIZATION ("X" one)	
							INDIVIDUAL	PARTNERSHIP	JOINT VENTURE
							CORPORA	TION OTHER (Specifi	<b>/</b> )
							STATE OF INCO	DRPORATION	·
SUF	RETY(IES) <i>(Nan</i>	ne and business addre	ss)						
		PENAL SUM OF	BOND				BID IDENTIF	ICATION	
PERO OF B	CENT	AMOUNT NO	T TO EXCEED		BID DATE	II	NVITATION NUME	BER	
PRIC		N(S) THOUSAND(S	HUNDRED(S)	CENTS	FOR (Construction, Su	upplies or			
OBL	LIGATION:				Services)				
ours bind amo	selves in such suits itself, jointly arount of the penal nunt of the penal number of the	Im "jointly and severall and severally with the Property sum.  In the property sum is void if the Principal executes the further country of the forms by the law ing this instrument agree.	y" as well as "several rincipal, for the payme ed above.  I - (a) upon acceptance ontractual documents principal; or (b) in the mount of the bid.  ees that its obligation waived. However, was .	y" only for ent of the s ee by the C and gives event of fa is not impa iver of the	Government of the bid ide the bond(s) required by ailure to execute such fu aired by any extension(s)	a joint action or name of the Sur entified above, w the terms of the rther contractual ) of the time for a xtensions aggree	actions against a rety. If no limit of li within the period sp bid as accepted v I documents and g acceptance of the	acting as co-sureties, we, ny or all of us. For all othe iability is indicated, the lim becified therein for accepta within the time specified (to live such bonds, pays the live such bonds, pays the bid that the Principal may an sixty (60) calendar days	r purposes, each Surety it of liability is the full since (sixty (60) days if no en (10) days if no period is Government for any cost grant to the Government.
SIC	SNATURE(S)								Corporato
			(Se	eal)		(Seal)	3.	(Seal)	Corporate Seal
Т	ME(S) & TITLE(S) Typed)	1.		2.			3.		Ocai
					INDIVIDUAL SURE	ETY(IES)			
SIC	SNATURE(S)	1.			(Seal)	2.			(0 1)
NA	ME(S) Typed)	1.			(Seal)	2.			(Seal)
					CORPORATE SUR	ETY(IES)			
4	NAME & ADDRESS					STATE OF IN	NCORPORATIO	N LIABILITY LIMIT (\$)	
SURETY	SIGNATURE(S)	1.				2.		1	Corporate Seal
NAME(S) & 1.					2.		Seal		

NAME(S) & TITLE(S) (Typed)

$\overline{}$	-				
	NAME & ADDRESS		STATE OF INCORPORATION	LIABILITY LIMIT (\$)	Comercia
SURETY Z S	SIGNATURE(S)	1.	2.		Corporate Seal
•	IAME(S) & TITLE(S) (Typed)	1.	2.		
۲	NAME & ADDRESS		STATE OF INCORPORATION	Corporate	
SURETY S S	SIGNATURE(S)	1.	2.	Seal	
-	IAME(S) & TITLE(S) (Typed)	1.	2.		
ΙΥD	NAME & ADDRESS		STATE OF INCORPORATION	Corporate Seal	
SURETY	SIGNATURE(S)	1.	2.		
N	IAME(S) & TITLE(S) (Typed)	1.	2.		
	NAME & ADDRESS		STATE OF INCORPORATION	LIABILITY LIMIT (\$)	
SURETY Z S	SIGNATURE(S)	1.	2.		Corporate Seal
	NAME(S) & TITLE(S) (Typed)	1.	2.		
ш	NAME & ADDRESS		STATE OF INCORPORATION	LIABILITY LIMIT (\$)	
$\sim$ $\vdash$	SIGNATURE(S)	1.	2.		Corporate Seal
	NAME(S) & TITLE(S) (Typed)	1.	2.		Seai
ပ	NAME & ADDRESS		STATE OF INCORPORATION LIABILITY LIMIT (\$)		
$\succ$	SIGNATURE(S)	1.	2.		Corporate Seal
SUF	NAME(S) & TITLE(S) (Typed)	1.	2.		Joan
		INSTRUCT	IONS		

- 1. This form is authorized for use when a bid guaranty is required. Any deviation from this form will require the written approval of the Administrator of General Services.
- 2. Insert the full legal name and business address of the Principal in the space designated "Principal" on the face of the form. An authorized person shall sign the bond. Any person signing in a representative capacity (e.g., an attorney-in-fact) must furnish evidence of authority if that representative is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved.
- 3. The bond may express penal sum as a percentage of the bid price. In these cases, the bond may state a maximum dollar limitation (e.g., 20% of the bid price but the amount not to exceed \_\_\_\_\_\_ dollars).
- 4. (a) Corporations executing the bond as sureties must appear on the Department of the Treasury's list of approved sureties and must act within the limitations listed therein. The value put into the LIABILITY LIMIT block is the penal sum (i.e., the face value) of the bond, unless a co-surety arrangement is proposed.
- (b) When multiple corporate sureties are involved, their names and addresses shall appear in the spaces (Surety A, Surety B, etc.) headed "CORPORATE SURETY(IES)." In the space designated "SURETY(IES)" on the face of the form, insert only the letter identifier corresponding to each of the sureties. Moreover, when co-surety arrangements exist, the parties may allocate their respective limitations of liability under the bond, provided that the sum total of their liability equals 100% of the bond penal sum.
- (c) When individual sureties are involved, a completed Affidavit of Individual Surety (Standard Form 28) for each individual surety, shall accompany the bond. The Government may require the surety to furnish additional substantiating information concerning its financial capability.
- 5. Corporations executing the bond shall affix their corporate seals. Individuals shall execute the bond opposite the word "Corporate Seal"; and shall affix an adhesive seal if executed in Maine, New Hampshire, or any other jurisdiction requiring adhesive seals.
- 6. Type the name and title of each person signing this bond in the space provided.
- 7. In its application to negotiated contracts, the terms "bid" and "bidder" shall include "proposal" and "offeror."

## Attachment #7:

Payment and Performance Bonds

## **PAYMENT BOND**

(See instructions on reverse)

DATE BOND EXECUTED (Must be same or later than date of contract)

OMB Control Number: 9000-0045 Expiration Date: 7/31/2019

Paperwork Reduction Act Statement - This information collection meets the requirements of 44 USC § 3507, as amended by section 2 of the Paperwork Reduction Act of 1995. You do not need to answer these questions unless we display a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 9000-0045. We estimate that it will take 60 minutes to read the instructions, gather the facts, and answer the questions. Send only comments relating to our time estimate, including suggestions for reducing this burden, or any other aspects of this collection of information to: General Services Administration, Regulatory Secretariat Division (M1V1CB), 1800 F Street, NW, Washington, DC 20405.

PRINCIPAL (Legal name and business address)	TYPE OF ORGA	ANIZATION	۱ ("X" o	one)	
	INDIVIDUA	L	PARTN	NERSHIP J	OINT VENTURE
	CORPORATION OTHER (Specify)				
	STATE OF INCO	ORPORAT	ION		
SURETY(IES) (Name(s) and business address(es))	PENAL SUM OF BOND				
	MILLION(S)	THOUSA	ND(S)	HUNDRED(S)	CENTS
	CONTRACT DA	CONTRACT DATE CONTRACT NUMBER			

#### **OBLIGATION:**

We, the Principal and Surety(ies), are firmly bound to the United States of America (hereinafter called the Government) in the above penal sum. For payment of the penal sum, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally. However, where the Sureties are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" as well as "severally" only for the purpose of allowing a joint action or actions against any or all of us. For all other purposes, each Surety binds itself, jointly and severally with the Principal, for the payment of the sum shown opposite the name of the Surety. If no limit is indicated, the limit of liability is the full amount of the penal sum.

#### **CONDITIONS:**

The above obligation is void if the Principal promptly makes payment to all persons having a direct relationship with the Principal or a subcontractor of the Principal for furnishing labor, material or both in the prosecution of the work provided for in the contract identified above, and any authorized modifications of the contract that subsequently are made. Notice of those modifications to the Surety(ies) are waived.

#### WITNESS:

The Principal and Surety(ies) executed this payment bond and affixed their seals on the above date.

					PRINCIP	AL				
SIGNATURE(S)		1.	(Seal)	2.		(Seal)	3.	(Seal)	Corporate	
TIT	ME(S) & LE(S) ped)	1.			2.		3.		Seal	
				IND	DIVIDUAL SUF	RETY(IES	3)			
SIGNATURE(S)		1. (Seal)					2. (Seal)			
NAME(S) (Typed)		1. 2.								
				COF	RPORATE SU	RETY(IE	S)			
<	NAME & ADDRESS					STATE OF	INCORPORATION	LIABILITY LIMIT \$		
SURETY	SIGNATURE(S)	(1)				2.			Corporate Seal	
	NAME(S) & TITLE(S) (Typed)					2.			- 34.	

	CORPORATE SURETY(IES) (Continued)									
В	NAME & ADDRESS		STATE OF INCORPORATION							
SURETY	SIGNATURE(S)	1.	2.		Corporate Seal					
	NAME(S) & TITLE(S) (Typed)	1.	2.							
၁	NAME & ADDRESS		LIABILITY LIMIT \$							
SURETY	SIGNATURE(S)	1.	2.		Corporate Seal					
SU	NAME(S) & TITLE(S) (Typed)	1.	2.							
٥	NAME & ADDRESS		STATE OF INCORPORATION	LIABILITY LIMIT \$						
SURETY	SIGNATURE(S)	1.	2.		Corporate Seal					
	NAME(S) & TITLE(S) (Typed)	1.	2.							
ш	NAME & ADDRESS		STATE OF INCORPORATION	LIABILITY LIMIT \$						
SURETY	SIGNATURE(S)	1.	2.		Corporate Seal					
SU	NAME(S) & TITLE(S) (Typed)	1.	2.							
F	NAME & ADDRESS		STATE OF INCORPORATION	LIABILITY LIMIT \$						
SURETY	SIGNATURE(S)	1.	2.		Corporate Seal					
SU	NAME(S) & TITLE(S) (Typed)	1.	2.							
5	NAME & ADDRESS		STATE OF INCORPORATION LIABILITY LIMIT \$							
SURETY	SIGNATURE(S)	1.	2.		Corporate Seal					
SOI	NAME(S) & TITLE(S) (Typed)	S) & 1. (S) d) 2.								

#### **INSTRUCTIONS**

- 1. This form, for the protection of persons supplying labor and material, is used when a payment bond is required under 40 USC Chapter 31, Subchapter III, Bonds. Any deviation from this form will require the written approval of the Administrator of General Services.
- 2. Insert the full legal name and business address of the Principal in the space designated "Principal" on the face of the form. An authorized person shall sign the bond. Any person signing in a representative capacity (e.g., an attorney-in-fact) must furnish evidence of authority if that representative is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved.
- 3. (a) Corporations executing the bond as sureties must appear on the Department of the Treasury's list of approved sureties and must act within the limitations listed therein. The value put into the LIABILITY LIMIT block is the penal sum (i.e., the face value) of the bond, unless a co-surety arrangement is proposed.
- (b) When multiple corporate sureties are involved, their names and addresses shall appear in the spaces (Surety A, Surety B, etc.) headed "CORPORATE SURETY(IES)." In the space designated "SURETY(IES)" on the face of the form, insert only the letter identifier corresponding to each of the sureties. Moreover, when co-surety arrangements exist, the parties may allocate their respective limitations of liability under the bonds, provided that the sum total of their liability equals 100% of the bond penal sum.
- (c) When individual sureties are involved, a completed Affidavit of Individual Surety (Standard Form 28) for each individual surety shall accompany the bond. The Government may require the surety to furnish additional substantiating information concerning its financial capability.
- 4. Corporations executing the bond shall affix their corporate seals. Individuals shall execute the bond opposite the words "Corporate Seal", and shall affix an adhesive seal if executed in Maine, New Hampshire, or any other jurisdiction requiring adhesive seals.
- 5. Type the name and title of each person signing this bond in the space provided.

## PERFORMANCE BOND

(See instructions on reverse)

DATE BOND EXECUTED (Must be same or later than date of contract)

OMB Control Number: 9000-0045 Expiration Date: 7/31/2019

Paperwork Reduction Act Statement - This information collection meets the requirements of 44 USC § 3507, as amended by section 2 of the Paperwork Reduction Act of 1995. You do not need to answer these questions unless we display a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 9000-0045. We estimate that it will take 60 minutes to read the instructions, gather the facts, and answer the questions. Send only comments relating to our time estimate, including suggestions for reducing this burden, or any other aspects of this collection of information to: General Services Administration, Regulatory Secretariat Division (M1V1CB), 1800 F Street, NW, Washington, DC 20405.

PRINCIPAL (Legal name and business address)	TYPE OF ORGANIZATION ("X" one)  INDIVIDUAL PARTNERSHIP JOINT VENTURE  CORPORATION OTHER (Specify)				ENTURE
SURETY(IES) (Name(s) and business address(es))	STATE OF INCOR	PENAL S	UM O	F BOND	
	MILLION(S)	THOUSANI	D(S)	HUNDRED(S)	CENTS
	CONTRACT DATE CONTRACT NUMBER		RACT NUMBER		

#### **OBLIGATION:**

We, the Principal and Surety(ies), are firmly bound to the United States of America (hereinafter called the Government) in the above penal sum. For payment of the penal sum, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally. However, where the Sureties are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" as well as "severally" only for the purpose of allowing a joint action or actions against any or all of us. For all other purposes, each Surety binds itself, jointly and severally with the Principal, for the payment of the sum shown opposite the name of the Surety. If no limit of liability is indicated, the limit of liability is the full amount of the penal sum.

#### CONDITIONS:

The Principal has entered into the contract identified above.

#### THEREFORE:

The above obligation is void if the Principal-

- (a)(1) Performs and fulfills all the understanding, covenants, terms, conditions, and agreements of the contract during the original term of the contract and any extensions thereof that are granted by the Government, with or without notice of the Surety(ies) and during the life of any guaranty required under the contract, and
- (2) Performs and fulfills all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of the contract that hereafter are made. Notice of those modifications to the Surety(ies) are waived.
- (b) Pays to the Government the full amount of the taxes imposed by the Government, if the said contract is subject to 41 USC Chapter 31, Subchapter III, Bonds, which are collected, deducted, or withheld from wages paid by the Principal in carrying out the construction contract with respect to which this bond is furnished.

#### WITNESS:

The Principal and Surety(ies) executed this performance bond and affixed their seals on the above date.

				PRIN	ICIPAL					
SIGNATURE(S)		1.	(Cool)	2.		(0 1)	3.	(0)		
NAME(S) & TITLE(S) (Typed)		1.	(Seal)	2.		(Seal)	3.	(Seal)	Corporate Seal	
				INDIVIDUAL	SURET	(IES)	'			
SIGNATURE(S)		1.			(Seal)	2.			(Sea	
NAME(S) (Typed)		1.				2.				
				CORPORATI	E SURET	Y(IES)			_	
_ <	NAME & ADDRESS					STATE OF INC	CORPORATION	LIABILITY LIMIT (\$)		
SURETY	SIGNATURE(S)	1.				2.		-	Corporate Seal	
SUR	NAME(S) & TITLE(S) (Typed)	1.				2.			. Seai	

		CORPO	DRATE SURETY(IES) (Con	ntinued)			
	NAME & ADDRESS			OF INCORPORATION	LIABILITY LIMIT (\$)		
SURETY	SIGNATURE(S)	1.	2.	2.			
SUF	NAME(S) & TITLE(S) (Typed)	1.	2.			Seal	
ပ	NAME & ADDRESS		STATE	OF INCORPORATION	LIABILITY LIMIT (\$)		
SURETY	SIGNATURE(S)	1.	2.		Corporate Seal		
	NAME(S) & TITLE(S) (Typed)	1.	2.	2.			
SURETY D	NAME & ADDRESS		STATE	OF INCORPORATION	LIABILITY LIMIT (\$)		
	SIGNATURE(S)	1.	2.		Corporate Seal		
	NAME(S) & TITLE(S) (Typed)	1.	2.	2.			
ш	NAME & ADDRESS		STATE	STATE OF INCORPORATION LIABILITY LIMIT (\$)		Corporate	
SURETY E	SIGNATURE(S)	1.	2.	2.			
sol	NAME(S) & TITLE(S) (Typed)	1.	2.	2.			
μ	NAME & ADDRESS		STATE	OF INCORPORATION	LIABILITY LIMIT (\$)		
SURETY	SIGNATURE(S)	1.	2.		Corporate Seal		
ns 	NAME(S) & TITLE(S) (Typed)	1.	2.				
g	NAME & ADDRESS			OF INCORPORATION	LIABILITY LIMIT (\$)		
SURETY	SIGNATURE(S)	1.	2.		Corporate Seal		
SOL	NAME(S) & TITLE(S) (Typed)	1.	2.			Coai	
		BOND PREMIUM	ER THOUSAND (\$)	TOTAL (\$)			

BOND	RATE PER THOUSAND (\$)	TOTAL (\$)
PREMIUM		

## **INSTRUCTIONS**

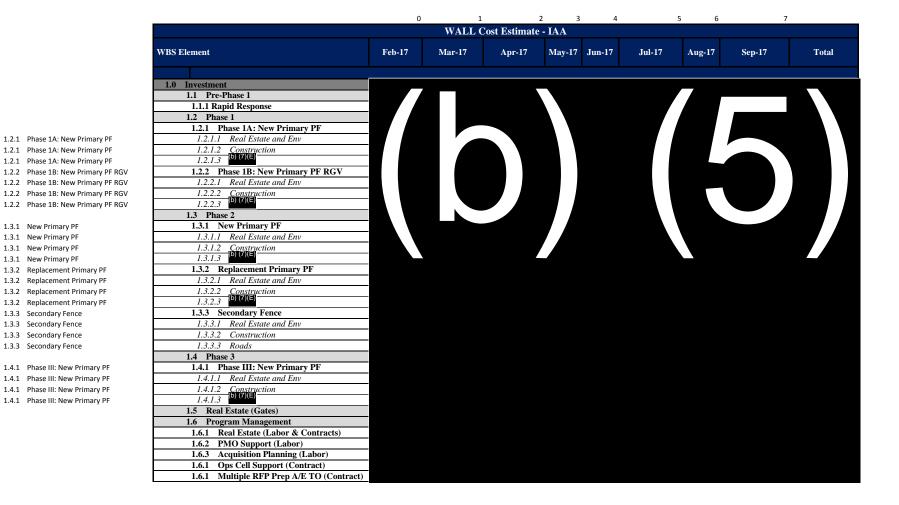
- 1. This form is authorized for use in connection with Government contracts. Any deviation from this form will require the written approval of the Administrator of General Services.
- 2. Insert the full legal name and business address of the Principal in the space designated "Principal" on the face of the form. An authorized person shall sign the bond. Any person signing in a representative capacity (e.g., an attorney-in-fact) must furnish evidence of authority if that representative is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved.
- 3. (a) Corporations executing the bond as sureties must appear on the Department of the Treasury's list of approved sureties and must act within the limitations listed therein. The value put into the LIABILITY LIMIT block is the penal sum (i.e., the face value) of bonds, unless a co-surety arrangement is proposed.
- (b) When multiple corporate sureties are involved, their names and addresses shall appear in the spaces (Surety A, Surety B, etc.) headed "CORPORATE SURETY(IES)." In the space designated "SURETY(IES)" on the face of the form, insert only the letter identifier corresponding to each of the sureties. Moreover, when co-surety arrangements exist, the parties may allocate their respective limitations of liability under the bonds, provided that the sum total of their liability equals 100% of the bond penal sum.
- (c) When individual sureties are involved, a completed Affidavit of Individual Surety (Standard Form 28) for each individual surety shall accompany the bond. The government may require the surety to furnish additional substantiating information concerning its financial capability.
- 4. Corporations executing the bond shall affix their corporate seals. Individuals shall execute the bond opposite the words "Corporate Seal", and shall affix an adhesive seal if executed in Maine, New Hampshire, or any other jurisdiction requiring adhesive seals.
- 5. Type the name and title of each person signing this bond in the space provided.

## Attachment #8:

Project Performance Survey

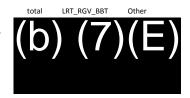
## **CBP CONTRACTOR PERFORMANCE EVALUATION SURVEY**

CO	ONTRACTOR NAME:	CONTRACT NUMBER:					
PC	OINT OF CONTACT:	DELIVERY ORDER NO.:					
1.	Project Description: Complexity of Work □ High	□ Medium	□ Low				
2.	Please provide ratings and comments regarding the Conratings: Excellent (3), Acceptable (2), or Unacceptable (		nance in each area b	pelow using the f	ollowing		
	:	3	2	1			
	Quality of Product or Service:						
	Timeliness or Scheduling of Service/Deliveries:						
	Business Relations/Customer Satisfaction						
	Key Personnel and Staffing (Including Subcontractors)						
	Ability to meet the terms and conditions within the contractually agreed price(s)?						
	Compliance with contractual terms/provisions						
3.	Would you hire this contractor to provide services for y ditional pages if desired.	our organization	in the future? Plea	ase provide com	ments using		
Sig	gned:						

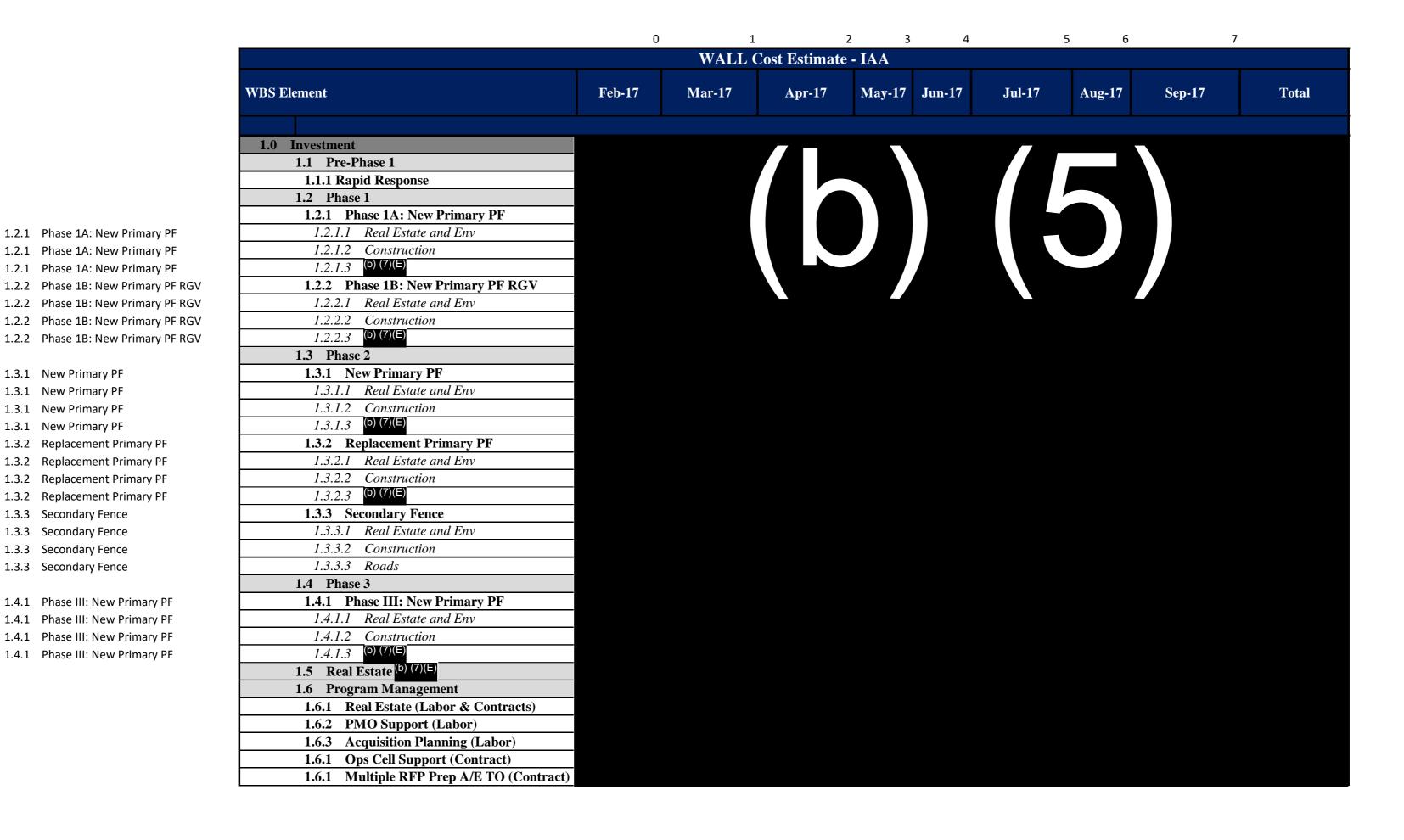


#### Phase

- 1.2.1 Phase 1A: New Primary PF
- 1.2.2 Phase 1B: New Primary PF RGV
- 1.3.1 New Primary PF
- 1.3.2 Replacement Primary PF
- 1.3.3 Secondary Fence
- 1.4.1 Phase III: New Primary PF



	Wall Construction Cost Variables Per Mile						
	Fence Cost	Fence Cost (LRT &RGV)	Fence Maint	Road Maint	Secondary Fence	Secondary Fence (LRT & RGV)	
Construction Cost Real Estate and Envi O(7/15) Roads RGV fence cost does not i	(D)(3)						



Phase

1.2.1 Phase 1A: New Primary PF

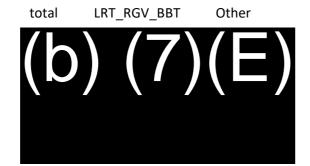
1.2.2 Phase 1B: New Primary PF RGV

1.3.1 New Primary PF

1.3.2 Replacement Primary PF

1.3.3 Secondary Fence

1.4.1 Phase III: New Primary PF

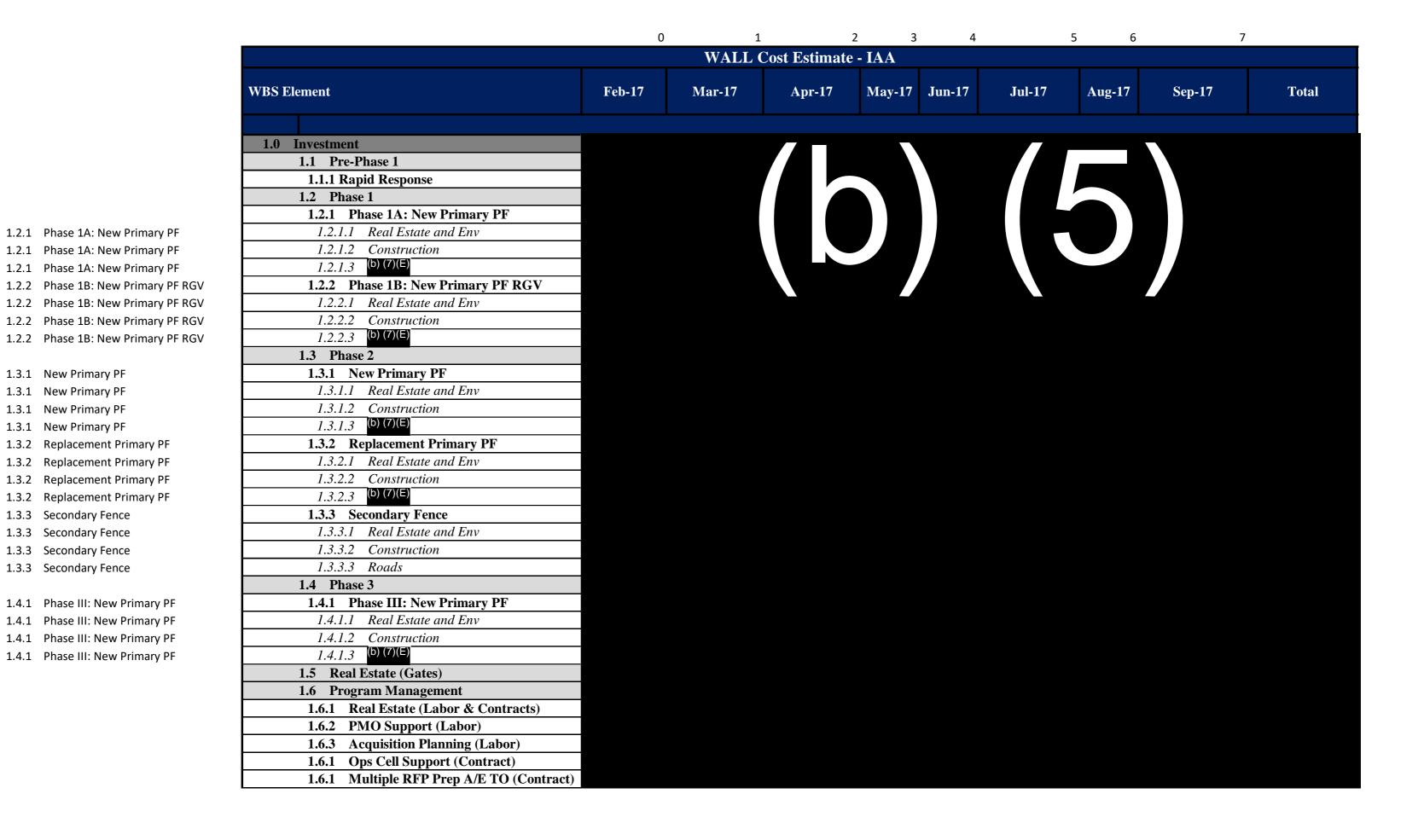


	Wall Construction Cost Variables Per Mile						
	Fence Cost	Fence Cost (LRT &RGV)	Fence Maint	Road Maint	Secondary Fence	Secondary Fence (LRT & RGV)	
Total				\ /			
Construction Cost				$) \ (\ \ ;$			
Real Estate and Envi							
(b) (7)(E)							
Roads							
RGV fence cost does not i	include lump sum	(b) (4) for additional RE clea	rances/acquisition				

#### **Cost Estimate of Roads and Wall**

	As	of	15	<b>February</b>	201 <u>7</u>	
7						

1.0 Investment	/ 1 \	
Total Road Cost Estimate	(b)	(5)
Total Wall Cost Estimate		
1.1 Roads	, ,	
1.1.1 Phase 1 Road Maintenance		
1.1.2 Phase 2 Road Maintenance		
1.1.3 Phase 3 Road Maintenance		
1.1.4 Patrol Road Maintenance		
1.1.5 Road Construction		
1.2 Phase 1 Wall		
1.2.1 Phase 1A: New Primary Wall		
1.2.1.1 Real Estate and Env		
1.2.1.2 Construction		
1.2.1.3 (b) (7)(E)	_	
1.2.2 Phase 1B: New Primary Wall RGV		
1.2.2.1 Real Estate and Env		
1.2.2.2 Construction		
1.2.2.3 (b) (7)(E)		
1.2.3 Phase 1C: Replacement Wall		
1.2.3.1 Construction		
1.3 Phase 2 Wall		
1.3.1 New Primary PF		
1.3.1.1 Real Estate and Env		
1.3.1.2 Construction		
1.3.1.3 (b) (7)(E)		
1.3.2 Replacement Primary PF	_	
1.3.2.1 Real Estate and Env		
1.3.2.2 Construction		
1.3.2.3 (b) (7)(E)		
1.3.3 Secondary Fence		
1.3.3.1 Real Estate and Env	_	
1.3.3.2 Construction		
1.3.3.3 Roads		
1.4 Phase 3 Wall		
1.4.1 Phase III: New Primary PF  1.4.1.1 Real Estate and Env		
1.4.1.2 Construction		
1.4.1.3 (b) (7)(E)		
1.5 Real Estate (Gates)	-	
1.6 USACE Program Management - Wall		
1.6.1 Real Estate (Labor & Contracts)		
1.6.2 PMO Support (Labor)		
1.6.3 Acquisition Planning (Labor)		
1.6.1 Ops Cell Support (Contract)		
1.6.1 Multiple RFP Prep A/E TO (Contract)		
1.7 CBP Support - Wall		
1.7.1 Environmental and Staff Support		
State State Support		



Phase

1.2.1 Phase 1A: New Primary PF

1.2.2 Phase 1B: New Primary PF RGV

1.3.1 New Primary PF

1.3.2 Replacement Primary PF

1.4.1 Phase III: New Primary PF

1.3.3 Secondary Fence

(b) (7)(E)

Wall Construction Cost Variables Per Mile						
	Fence Cost	Fence Cost (LRT &RGV)	Fence Maint	Road Maint	Secondary Fence	Secondary Fence (LRT & RGV)
Total  Construction Cost  Real Estate and Envi  (b) (7)(E)  Roads			(b	) (	5)	
RGV fence cost does not	include lump sum	(b) (4) for additional RE clear	rances/acquisition			

#### **Cost Estimate of Roads and Wall**

As of 15 February 2017

Total Wall Cost Estimate Total Wall Cost Estimate 1.0 Investment 1.1 Roads 1.1.1 Phase 2 Road Maintenance 1.1.2 Phase 2 Road Maintenance 1.1.3 Phase 3 Road Maintenance 1.1.4 Patrol Road Maintenance 1.1.5 Road Construction 1.2 Phase 1 Wall 1.2.1 Phase 1 New Primary Wall 1.2.1.1 Real Estate and Env 1.2.1.2 Road Estate and Env 1.2.1.2 Phase 18: New Primary Wall RGV 1.2.1.3 Sensors 1.2.2 Phase 18: New Primary Wall RGV 1.2.2.1 Real Estate and Env 1.2.2.2 Construction 1.2.2.3 Device 1.2.2.3 Construction 1.3 Phase 2 Wall 1.3.1 New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 Device 1.3.1.3 Device 1.3.2.1 Real Estate and Env 1.3.1.2 Real Estate and Env 1.3.1.3 Device 1.3.3 Senods 1.4 Phase 3 Wall 1.4.1 Phase III: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 Senods 1.4 Phase 3 Wall 1.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.1 Ops Cell Support (Contract) 1.6.1 Ops Cell Support (Contract) 1.6.1 Ops Cell Support (Contract) 1.6.1 Multiple RFP Prep A/E TO (Contract) 1.7 CBP Support - Wall	7.5 6. 25	FY17	FY18
1.1.3 Phase 3 Road Maintenance 1.1.4 Patrol Road Maintenance 1.1.5 Road Construction 1.2 Phase 1 Wall 1.2.1 Phase 1A: New Primary Wall 1.2.1.1 Real Estate and Env 1.2.1.2 Construction 1.2.1.3 Sensors 1.2.2 Phase 1B: New Primary Wall RGV 1.2.2.1 Real Estate and Env 1.2.2.2 Construction 1.2.2.3 Invive 1.2.2.3 Invive 1.2.3 Phase 1C: Replacement Wall 1.2.3.1 Construction 1.3 Phase 2 Wall 1.3.1 New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 Invive 1.3.1.3 Invive 1.3.2 Replacement Primary PF 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.2.3 Invive 1.3.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Roads 1.4 Phase 3 Wall 1.4.1 Phase 3 Ill: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 Invive 1.4.1.3 Invive 1.4.1.4 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Multiple RFP Prep A/E TO (Contract)	Total Road Cost Estimate		
1.1.3 Phase 3 Road Maintenance 1.1.4 Patrol Road Maintenance 1.1.5 Road Construction 1.2 Phase 1 Wall 1.2.1 Phase 1A: New Primary Wall 1.2.1.1 Real Estate and Env 1.2.1.2 Construction 1.2.1.3 Sensors 1.2.2 Phase 1B: New Primary Wall RGV 1.2.2.1 Real Estate and Env 1.2.2.2 Construction 1.2.2.3 Invive 1.2.2.3 Invive 1.2.3 Phase 1C: Replacement Wall 1.2.3.1 Construction 1.3 Phase 2 Wall 1.3.1 New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 Invive 1.3.1.3 Invive 1.3.2 Replacement Primary PF 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.2.3 Invive 1.3.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Roads 1.4 Phase 3 Wall 1.4.1 Phase 3 Ill: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 Invive 1.4.1.3 Invive 1.4.1.4 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Multiple RFP Prep A/E TO (Contract)	Total Wall Cost Estimate		
1.1.3 Phase 3 Road Maintenance 1.1.4 Patrol Road Maintenance 1.1.5 Road Construction 1.2 Phase 1 Wall 1.2.1 Phase 1A: New Primary Wall 1.2.1.1 Real Estate and Env 1.2.1.2 Construction 1.2.1.3 Sensors 1.2.2 Phase 1B: New Primary Wall RGV 1.2.2.1 Real Estate and Env 1.2.2.2 Construction 1.2.2.3 Invive 1.2.2.3 Invive 1.2.3 Phase 1C: Replacement Wall 1.2.3.1 Construction 1.3 Phase 2 Wall 1.3.1 New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 Invive 1.3.1.3 Invive 1.3.2 Replacement Primary PF 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.2.3 Invive 1.3.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Roads 1.4 Phase 3 Wall 1.4.1 Phase 3 Ill: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 Invive 1.4.1.3 Invive 1.4.1.4 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Multiple RFP Prep A/E TO (Contract)	1.0 Investment		
1.1.3 Phase 3 Road Maintenance 1.1.4 Patrol Road Maintenance 1.1.5 Road Construction 1.2 Phase 1 Wall 1.2.1 Phase 1A: New Primary Wall 1.2.1.1 Real Estate and Env 1.2.1.2 Construction 1.2.1.3 Sensors 1.2.2 Phase 1B: New Primary Wall RGV 1.2.2.1 Real Estate and Env 1.2.2.2 Construction 1.2.2.3 Invive 1.2.2.3 Invive 1.2.3 Phase 1C: Replacement Wall 1.2.3.1 Construction 1.3 Phase 2 Wall 1.3.1 New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 Invive 1.3.1.3 Invive 1.3.2 Replacement Primary PF 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.2.3 Invive 1.3.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Roads 1.4 Phase 3 Wall 1.4.1 Phase 3 Ill: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 Invive 1.4.1.3 Invive 1.4.1.4 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Multiple RFP Prep A/E TO (Contract)	1.1 Roads		
1.1.3 Phase 3 Road Maintenance 1.1.4 Patrol Road Maintenance 1.1.5 Road Construction 1.2 Phase 1 Wall 1.2.1 Phase 1A: New Primary Wall 1.2.1.1 Real Estate and Env 1.2.1.2 Construction 1.2.1.3 Sensors 1.2.2 Phase 1B: New Primary Wall RGV 1.2.2.1 Real Estate and Env 1.2.2.2 Construction 1.2.2.3 Invive 1.2.2.3 Invive 1.2.3 Phase 1C: Replacement Wall 1.2.3.1 Construction 1.3 Phase 2 Wall 1.3.1 New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 Invive 1.3.1.3 Invive 1.3.2 Replacement Primary PF 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.2.3 Invive 1.3.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Roads 1.4 Phase 3 Wall 1.4.1 Phase 3 Ill: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 Invive 1.4.1.3 Invive 1.4.1.4 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Multiple RFP Prep A/E TO (Contract)	1.1.1 Phase 1 Road Maintenance		
1.1.4 Patrol Road Maintenance 1.1.5 Road Construction 1.2 Phase 1 Wall 1.2.1 Phase 1A: New Primary Wall 1.2.1.1 Real Estate and Env 1.2.1.2 Construction 1.2.2 Phase 1B: New Primary Wall RGV 1.2.2.1 Real Estate and Env 1.2.2.2 Construction 1.2.3 Divis 1.2.3 Divis 1.3.1 Construction 1.3 Phase 2 Wall 1.3.1 New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 Divis 1.3.1 Real Estate and Env 1.3.2.1 Construction 1.3.1.3 Real Estate and Env 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.3.3 Patrol 1.3.4 Real Estate and Env 1.3.2.5 Construction 1.3.3.1 Real Estate and Env 1.3.2.6 Construction 1.3.2.7 Real Estate and Env 1.3.2.8 Real Estate and Env 1.3.3.9 Construction 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Secondary Fence 1.3.3.3 Roads 1.4 Phase 3 Wall 1.4.1 Phase III: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 Divis 1.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.4 Multiple RFP Prep A/E TO (Contract)	1.1.2 Phase 2 Road Maintenance		
1.1.5 Road Construction  1.2 Phase 1 Wall  1.2.1 Phase 1A: New Primary Wall  1.2.1.1 Real Estate and Env  1.2.1.3 Sensors  1.2.2 Phase 1B: New Primary Wall RGV  1.2.2.1 Real Estate and Env  1.2.2.2 Construction  1.2.2.3 DIFFE  1.2.3 Phase 1C: Replacement Wall  1.2.3.1 Construction  1.3 Phase 2 Wall  1.3.1 New Primary PF  1.3.1.1 Real Estate and Env  1.3.1.2 Construction  1.3.2.3 DIFFE  1.3.3 Pase 2 Wall  1.3.4 Real Estate and Env  1.3.1.3 DIFFE  1.3.1.1 Real Estate and Env  1.3.1.2 Construction  1.3.3 Pase 2 Wall  1.4.1 Real Estate and Env  1.3.2.2 Construction  1.3.3 Secondary Fence  1.3.3.1 Real Estate and Env  1.3.3.2 Construction  1.3.3.3 Roads  1.4 Phase 3 Wall  1.4.1 Phase III: New Primary PF  1.4.1.1 Real Estate and Env  1.4.1.2 Construction  1.4.1.3 DIFFE  1.5 Real Estate (Gates)  1.6 USACE Program Management - Wall  1.6.1 Real Estate (Labor & Contracts)  1.6.2 PMO Support (Labor)  1.6.3 Acquisition Planning (Labor)  1.6.4 Multiple RFP Prep A/E TO (Contract)	1.1.3 Phase 3 Road Maintenance		
1.2 Phase 1 Wall 1.2.1 Phase 1A: New Primary Wall 1.2.1.1 Real Estate and Env 1.2.1.2 Construction 1.2.1.3 Sensors 1.2.2 Phase 1B: New Primary Wall RGV 1.2.2.1 Real Estate and Env 1.2.2.2 Construction 1.2.2.3 DIVID 1.2.3 DIVID 1.2.3 Phase 1 C: Replacement Wall 1.2.3.1 Construction 1.3 Phase 2 Wall 1.3.1 New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 DIVID 1.3.2 Replacement Primary PF 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.2.3 DIVID 1.3.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Real Estate and Env 1.3.3.1 Real Estate and Env 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Real Estate and Env 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Real Estate and Env 1.3.3.4 Phase 3 Wall 1.4 Phase 3 Wall 1.4.1 Phase III: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 DIVID 1.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.4 Multiple RFP Prep A/E TO (Contract)	1.1.4 Patrol Road Maintenance		
1.2.1 Phase 1A: New Primary Wall 1.2.1.1 Real Estate and Env 1.2.1.2 Construction 1.2.2.3 Sensors 1.2.2 Phase 1B: New Primary Wall RGV 1.2.2.1 Real Estate and Env 1.2.2.2 Construction 1.2.3 ID (7)(E) 1.2.3 ID (7)(E) 1.3.1 New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 ID (7)(E) 1.3.2 Replacement Primary PF 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.3 Real Estate and Env 1.3.3.3 Real Estate and Env 1.3.3.4 Real Estate and Env 1.3.3.5 Construction 1.3.3.7 Real Estate and Env 1.3.3.8 Construction 1.3.8 Real Estate and Env 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.5.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.4 Multiple RFP Prep A/E TO (Contract)	1.1.5 Road Construction		
1.2.1.1 Real Estate and Env 1.2.1.2 Construction 1.2.1.3 Sensors 1.2.2 Phase 1B: New Primary Wall RGV 1.2.2.1 Real Estate and Env 1.2.2.2 Construction 1.2.2.3 DYCKS 1.2.3 Phase 1C: Replacement Wall 1.2.3.1 Construction 1.3 Phase 2 Wall 1.3.1 New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 DYCKS 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 DYCKS 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 Real Estate and Env 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 Real Estate and Env 1.3.1.4 Real Estate and Env 1.3.1.5 Construction 1.3.1.6 Real Estate and Env 1.3.1.7 Real Estate and Env 1.3.1.8 Real Estate and Env 1.3.1.9 Construction 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 Real Estate and Env 1.4.1.1 Real Estate (Gates) 1.4 Phase 3 Wall 1.4.1 Phase III: New Primary PF 1.4.1.1 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.4 Multiple RFP Prep A/E TO (Contract)	1.2 Phase 1 Wall		
1.2.1.2 Construction 1.2.1.3 Sensors 1.2.2 Phase 1B: New Primary Wall RGV 1.2.2.1 Real Estate and Env 1.2.2.2 Construction 1.2.2.3 Phase 1C: Replacement Wall 1.2.3.1 Construction 1.3 Phase 2 Wall 1.3.1 New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 Poly (C) 1.3.2 Replacement Primary PF 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.3.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Real Estate and Env 1.3.3.4 Real Estate and Env 1.3.4 Real Estate and Env 1.3.5 Real Estate and Env 1.3.5 Real Estate and Env 1.3.6 Construction 1.3.7 Real Estate and Env 1.3.8 Real Estate and Env 1.4.9 Phase 1 Wall 1.4.1 Phase III: New Primary PF 1.4.1.1 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.4 Multiple RFP Prep A/E TO (Contract)	1.2.1 Phase 1A: New Primary Wall		
1.2.1.3 Sensors 1.2.2 Phase 1B: New Primary Wall RGV 1.2.2.1 Real Estate and Env 1.2.2.2 Construction 1.2.3.1 DIVIE 1.2.3.1 Construction 1.3 Phase 1C: Replacement Wall 1.2.3.1 New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 DIVIE 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.2.3 Replacement Primary PF 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.2.3 DIVIE 1.3.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Real Estate and Env 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Real Estate and Env 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Roads 1.4 Phase 3 Wall 1.4.1 Phase III: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 DIVIE 1.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.4 Multiple RFP Prep A/E TO (Contract)	1.2.1.1 Real Estate and Env		
1.2.2 Phase 1B: New Primary Wall RGV 1.2.2.1 Real Estate and Env 1.2.2.2 Construction 1.2.3 b (7)(E) 1.2.3 b (7)(E) 1.2.3 b (7)(E) 1.2.3 c (2.3.1 c) (7)(E) 1.3.1 Phase 2 Wall 1.3.1 New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 b (7)(E) 1.3.2 Replacement Primary PF 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.2.3 b (7)(E) 1.3.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Real Estate and Env 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Fend Estate and Env 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Real Estate (and Env 1.3.3.4 Phase 3 Wall 1.4.1 Phase III: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 b (7)(E) 1.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.4 Multiple RFP Prep A/E TO (Contract)	1.2.1.2 Construction		
1.2.2.1 Real Estate and Env 1.2.2.2 Construction 1.2.2.3 (D) (V)(E) 1.2.3 Phase 1C: Replacement Wall 1.2.3.1 Construction 1.3 Phase 2 Wall 1.3.1. New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 (D) (V)(E) 1.3.2 Replacement Primary PF 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.2.3 (D) (V)(E) 1.3.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Real Estate and Env 1.3.3.4 Phase 3 Wall 1.4.1 Phase III: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 (D) (V)(E) 1.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Multiple RFP Prep A/E TO (Contract)	1.2.1.3 Sensors		
1.2.2.2 Construction 1.2.2.3 (b) (7) (c) 1.2.3 Phase 1C: Replacement Wall 1.2.3.1 Construction 1.3 Phase 2 Wall 1.3.1 New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 (b) (7) (c) 1.3.2 Replacement Primary PF 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.2.3 (b) (7) (c) 1.3.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Real Estate and Env 1.3.3.4 Real Estate and Env 1.3.3.7 Real Estate and Env 1.3.3.8 Real Estate and Env 1.3.3.9 Construction 1.3.3.1 Real Estate and Env 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Real Estate and Env 1.4.1.1 Real Estate and Env 1.4.1.1 Real Estate (Gates) 1.4 Phase III: New Primary PF 1.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Ops Cell Support (Contract) 1.6.1 Multiple RFP Prep A/E TO (Contract)	1.2.2 Phase 1B: New Primary Wall RGV		
1.2.2.3 Phase 1C: Replacement Wall 1.2.3.1 Construction 1.3 Phase 2 Wall 1.3.1 New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 [DIVID] 1.3.2 Replacement Primary PF 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.2.3 [DIVID] 1.3.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Real Estate and Env 1.3.3.4 Real Estate and Env 1.4.1.7 Phase 3 Wall 1.4.1 Phase Ill: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 [DIVID] 1.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Ops Cell Support (Contract) 1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.2.3 Phase 1C: Replacement Wall 1.2.3.1 Construction 1.3 Phase 2 Wall 1.3.1 New Primary PF 1.3.1.1 Real Estate and Env 1.3.1.2 Construction 1.3.1.3 (DIT)(E) 1.3.2 Replacement Primary PF 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.2.3 (DIT)(E) 1.3.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Real Estate and Env 1.3.3.4 Phase 3 Wall 1.4.1 Phase III: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 (DIT)(E) 1.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Ops Cell Support (Contract) 1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.2.3.1 Construction  1.3 Phase 2 Wall  1.3.1 New Primary PF  1.3.1.1 Real Estate and Env  1.3.1.2 Construction  1.3.1.3 (b) (7) (c)  1.3.2 Replacement Primary PF  1.3.2.1 Real Estate and Env  1.3.2.2 Construction  1.3.2.3 (b) (7) (c)  1.3.3 Secondary Fence  1.3.3.1 Real Estate and Env  1.3.3.2 Construction  1.3.3.3 Roads  1.4 Phase 3 Wall  1.4.1 Phase III: New Primary PF  1.4.1.1 Real Estate and Env  1.4.1.2 Construction  1.4.1.3 (b) (7) (c)  1.5 Real Estate (Gates)  1.6 USACE Program Management - Wall  1.6.1 Real Estate (Labor & Contracts)  1.6.2 PMO Support (Labor)  1.6.3 Acquisition Planning (Labor)  1.6.1 Ops Cell Support (Contract)  1.6.1 Multiple RFP Prep A/E TO (Contract)	1.2.2.3 (b) (7)(E)		
1.3 Phase 2 Wall  1.3.1 New Primary PF  1.3.1.1 Real Estate and Env  1.3.1.2 Construction  1.3.2 Replacement Primary PF  1.3.2.1 Real Estate and Env  1.3.2.2 Construction  1.3.3.3 Secondary Fence  1.3.3.1 Real Estate and Env  1.3.3.2 Construction  1.3.3.3 Real Estate and Env  1.3.3.1 Real Estate and Env  1.3.3.2 Real Estate and Env  1.3.3.3 Roads  1.4 Phase 3 Wall  1.4.1 Phase Ill: New Primary PF  1.4.1.1 Real Estate and Env  1.4.1.2 Construction  1.4.1.3 DOCE  1.5 Real Estate (Gates)  1.6 USACE Program Management - Wall  1.6.1 Real Estate (Labor & Contracts)  1.6.2 PMO Support (Labor)  1.6.3 Acquisition Planning (Labor)  1.6.1 Ops Cell Support (Contract)  1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.3.1 New Primary PF  1.3.1.1 Real Estate and Env  1.3.1.2 Construction  1.3.1.3 (b) (7)(E)  1.3.2 Replacement Primary PF  1.3.2.1 Real Estate and Env  1.3.2.2 Construction  1.3.2.3 (b) (7)(E)  1.3.3 Secondary Fence  1.3.3.1 Real Estate and Env  1.3.3.2 Construction  1.3.3.3 Roads  1.4 Phase 3 Wall  1.4.1 Phase III: New Primary PF  1.4.1.1 Real Estate and Env  1.4.1.2 Construction  1.4.1.3 (b) (7)(E)  1.5 Real Estate (Gates)  1.6 USACE Program Management - Wall  1.6.1 Real Estate (Labor & Contracts)  1.6.2 PMO Support (Labor)  1.6.3 Acquisition Planning (Labor)  1.6.1 Ops Cell Support (Contract)  1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.3.1.1 Real Estate and Env  1.3.1.2 Construction  1.3.1.3 (b) (7)(E)  1.3.2 Replacement Primary PF  1.3.2.1 Real Estate and Env  1.3.2.2 Construction  1.3.3.3 Secondary Fence  1.3.3.1 Real Estate and Env  1.3.3.2 Construction  1.3.3.3 Roads  1.4 Phase 3 Wall  1.4.1 Phase III: New Primary PF  1.4.1.1 Real Estate and Env  1.4.1.2 Construction  1.4.1.3 (b) (7)(E)  1.5 Real Estate (Gates)  1.6 USACE Program Management - Wall  1.6.1 Real Estate (Labor & Contracts)  1.6.2 PMO Support (Labor)  1.6.3 Acquisition Planning (Labor)  1.6.1 Ops Cell Support (Contract)  1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.3.1.2 Construction 1.3.1.3 (b) (7)(E) 1.3.2 Replacement Primary PF 1.3.2.1 Real Estate and Env 1.3.2.2 Construction 1.3.2.3 (b) (7)(E) 1.3.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Roads 1.4 Phase 3 Wall 1.4.1 Phase III: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 (b) (7)(E) 1.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Ops Cell Support (Contract) 1.6.1 Multiple RFP Prep A/E TO (Contract)	·		
1.3.1.3 (D) (T)(E)  1.3.2 Replacement Primary PF  1.3.2.1 Real Estate and Env  1.3.2.2 Construction  1.3.2.3 (D) (T)(E)  1.3.3 Secondary Fence  1.3.3.1 Real Estate and Env  1.3.3.2 Construction  1.3.3.3 Roads  1.4 Phase 3 Wall  1.4.1 Phase III: New Primary PF  1.4.1.1 Real Estate and Env  1.4.1.2 Construction  1.4.1.3 (D) (T)(E)  1.5 Real Estate (Gates)  1.6 USACE Program Management - Wall  1.6.1 Real Estate (Labor & Contracts)  1.6.2 PMO Support (Labor)  1.6.3 Acquisition Planning (Labor)  1.6.1 Ops Cell Support (Contract)  1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.3.2 Replacement Primary PF  1.3.2.1 Real Estate and Env  1.3.2.2 Construction  1.3.2.3 (D) (7)(E)  1.3.3 Secondary Fence  1.3.3.1 Real Estate and Env  1.3.3.2 Construction  1.3.3.3 Roads  1.4 Phase 3 Wall  1.4.1 Phase III: New Primary PF  1.4.1.1 Real Estate and Env  1.4.1.2 Construction  1.4.1.3 (D) (7)(E)  1.5 Real Estate (Gates)  1.6 USACE Program Management - Wall  1.6.1 Real Estate (Labor & Contracts)  1.6.2 PMO Support (Labor)  1.6.3 Acquisition Planning (Labor)  1.6.1 Ops Cell Support (Contract)  1.6.1 Multiple RFP Prep A/E TO (Contract)		_	
1.3.2.1 Real Estate and Env  1.3.2.2 Construction  1.3.2.3 Secondary Fence  1.3.3.1 Real Estate and Env  1.3.3.2 Construction  1.3.3.3 Roads  1.4 Phase 3 Wall  1.4.1 Phase III: New Primary PF  1.4.1.1 Real Estate and Env  1.4.1.2 Construction  1.4.1.3 (b) (7)(E)  1.5 Real Estate (Gates)  1.6 USACE Program Management - Wall  1.6.1 Real Estate (Labor & Contracts)  1.6.2 PMO Support (Labor)  1.6.3 Acquisition Planning (Labor)  1.6.1 Ops Cell Support (Contract)  1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.3.2.2 Construction 1.3.2.3 (b) (7) (E) 1.3.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Roads 1.4 Phase 3 Wall 1.4.1 Phase III: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 (b) (7) (E) 1.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Ops Cell Support (Contract) 1.6.1 Multiple RFP Prep A/E TO (Contract)	· · · · · · · · · · · · · · · · · · ·		
1.3.2.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Roads 1.4 Phase 3 Wall 1.4.1 Phase III: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 (b) (7)(E) 1.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Ops Cell Support (Contract) 1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.3.3 Secondary Fence 1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Roads 1.4 Phase 3 Wall 1.4.1 Phase III: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 (b) (7)(E) 1.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Ops Cell Support (Contract) 1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.3.3.1 Real Estate and Env 1.3.3.2 Construction 1.3.3.3 Roads 1.4 Phase 3 Wall 1.4.1 Phase III: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 (D) (T) (E) 1.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Ops Cell Support (Contract) 1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.3.3.2 Construction 1.3.3.3 Roads  1.4 Phase 3 Wall 1.4.1 Phase III: New Primary PF 1.4.1.1 Real Estate and Env 1.4.1.2 Construction 1.4.1.3 (b) (7)(E)  1.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Ops Cell Support (Contract) 1.6.1 Multiple RFP Prep A/E TO (Contract)	·		
1.3.3.3 Roads  1.4 Phase 3 Wall  1.4.1 Phase III: New Primary PF  1.4.1.1 Real Estate and Env  1.4.1.2 Construction  1.4.1.3 (b) (7)(E)  1.5 Real Estate (Gates)  1.6 USACE Program Management - Wall  1.6.1 Real Estate (Labor & Contracts)  1.6.2 PMO Support (Labor)  1.6.3 Acquisition Planning (Labor)  1.6.1 Ops Cell Support (Contract)  1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.4 Phase 3 Wall  1.4.1 Phase III: New Primary PF  1.4.1.1 Real Estate and Env  1.4.1.2 Construction  1.4.1.3 (b) (7)(E)  1.5 Real Estate (Gates)  1.6 USACE Program Management - Wall  1.6.1 Real Estate (Labor & Contracts)  1.6.2 PMO Support (Labor)  1.6.3 Acquisition Planning (Labor)  1.6.1 Ops Cell Support (Contract)  1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.4.1 Phase III: New Primary PF  1.4.1.1 Real Estate and Env  1.4.1.2 Construction  1.4.1.3 (b) (7)(E)  1.5 Real Estate (Gates)  1.6 USACE Program Management - Wall  1.6.1 Real Estate (Labor & Contracts)  1.6.2 PMO Support (Labor)  1.6.3 Acquisition Planning (Labor)  1.6.1 Ops Cell Support (Contract)  1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.4.1.1 Real Estate and Env  1.4.1.2 Construction  1.4.1.3 (b) (7)(E)  1.5 Real Estate (Gates)  1.6 USACE Program Management - Wall  1.6.1 Real Estate (Labor & Contracts)  1.6.2 PMO Support (Labor)  1.6.3 Acquisition Planning (Labor)  1.6.1 Ops Cell Support (Contract)  1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.4.1.2 Construction 1.4.1.3 (b) (7)(E)  1.5 Real Estate (Gates) 1.6 USACE Program Management - Wall 1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Ops Cell Support (Contract) 1.6.1 Multiple RFP Prep A/E TO (Contract)	•		
1.4.1.3 (b) (7)(E)  1.5 Real Estate (Gates)  1.6 USACE Program Management - Wall  1.6.1 Real Estate (Labor & Contracts)  1.6.2 PMO Support (Labor)  1.6.3 Acquisition Planning (Labor)  1.6.1 Ops Cell Support (Contract)  1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.5 Real Estate (Gates)  1.6 USACE Program Management - Wall  1.6.1 Real Estate (Labor & Contracts)  1.6.2 PMO Support (Labor)  1.6.3 Acquisition Planning (Labor)  1.6.1 Ops Cell Support (Contract)  1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.6 USACE Program Management - Wall  1.6.1 Real Estate (Labor & Contracts)  1.6.2 PMO Support (Labor)  1.6.3 Acquisition Planning (Labor)  1.6.1 Ops Cell Support (Contract)  1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.6.1 Real Estate (Labor & Contracts) 1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Ops Cell Support (Contract) 1.6.1 Multiple RFP Prep A/E TO (Contract)	` ,		
1.6.2 PMO Support (Labor) 1.6.3 Acquisition Planning (Labor) 1.6.1 Ops Cell Support (Contract) 1.6.1 Multiple RFP Prep A/E TO (Contract)	<u> </u>		
1.6.3 Acquisition Planning (Labor) 1.6.1 Ops Cell Support (Contract) 1.6.1 Multiple RFP Prep A/E TO (Contract)	,		
1.6.1 Ops Cell Support (Contract) 1.6.1 Multiple RFP Prep A/E TO (Contract)			
1.6.1 Multiple RFP Prep A/E TO (Contract)	· · · · · · · · · · · · · · · · · · ·		
1.7.1 Environmental and Staff Support			

Border Wall Requirements

SDC

ELC

YUM TCA

**EPT** 

**BBT** 

DRT

LRT

**RGV** 

Total

New Primary PV-

1

New Secondary/Enforcement Zone

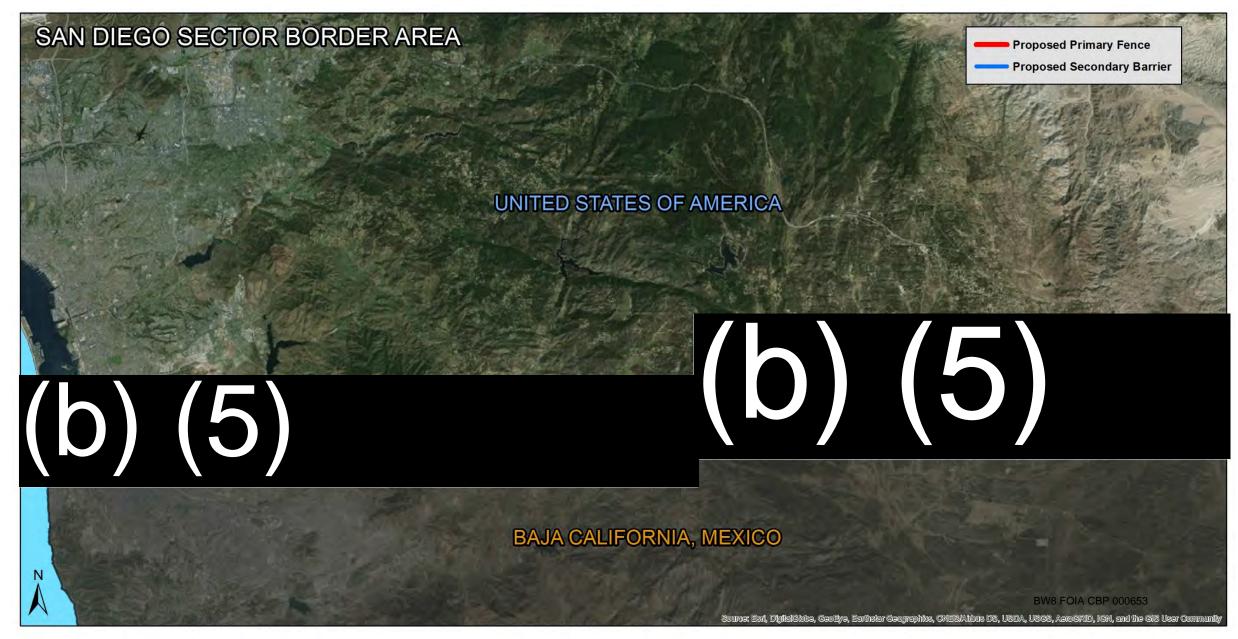
Replace existing Pedestrian/Vehicle Barrier with PV1

Replace existing Secondary Barrier

(b) (7)(E), (b) (5)

# San Diego Sector

## Border Wall VTC

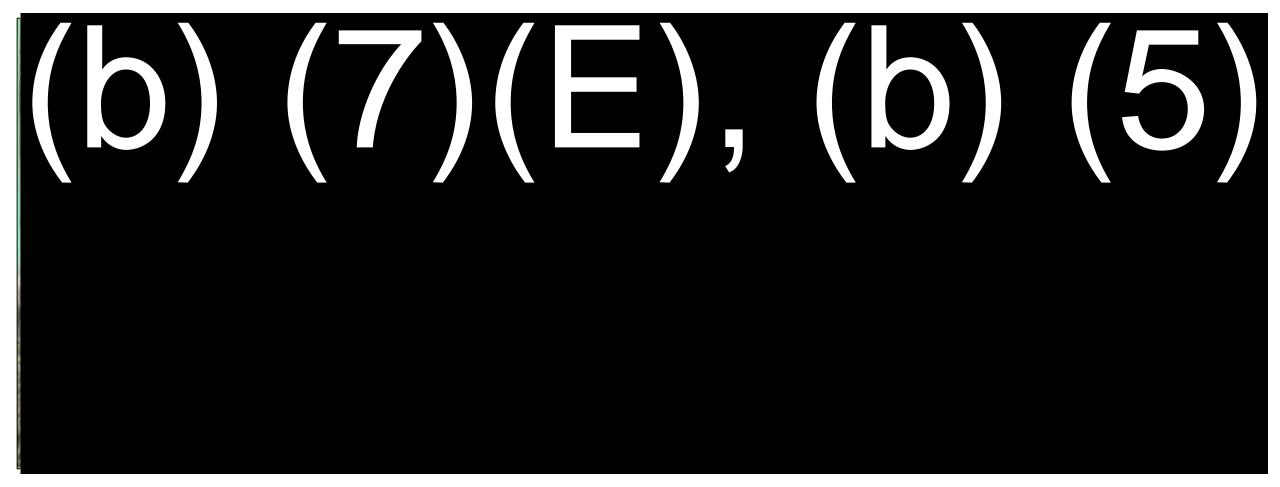


## Backup Slide #2...

Barrier Type	End State Barrier Mileages	*Barrier Support Assets in Miles (e.g., Lights, RVS, Road)
New Primary PV-capable Barrier	(b) (5), (b) (	7)(E)
New Secondary Barrier**	(D)	
Replace <b>Vehicle Barrier*</b> with Primary PV-capable Barrier		
Replace Existing Primary Barrier w/PV-capable		
Replace Existing Secondary Barrier**		
*Any <b>vehicle barrier</b> that is to be replaced will be replaced with PV barrier (e.g., wall/fence designed against pedestrian <i>and</i> vehicle)  **Secondary Barrier equates to an enforcement zone and comes with those assets listed on slide 1 bullet 1.		* These assets are located in immediate proximity to the type of barrier they are meant to complement (i.e., a new/replacement primary barrier for which you need accompanying lights, road, etc.)

## El Centro Sector

#### Border Walls – ELC End State



#### **ELC Wall Requirement**

70 Miles - Enforcement Zone

29 Miles - Replacement Fencing

11 Miles of Undisturbed Earth

#### **ELC Current Infrastructure**

No Fencing

Bollard Fencing (PV)

Landing Mat Fencing

BW8 FOIA CBP 000656

Bollard Fencing (Specialized for Dunes)

#### Wall OFAM & IPT (continued)

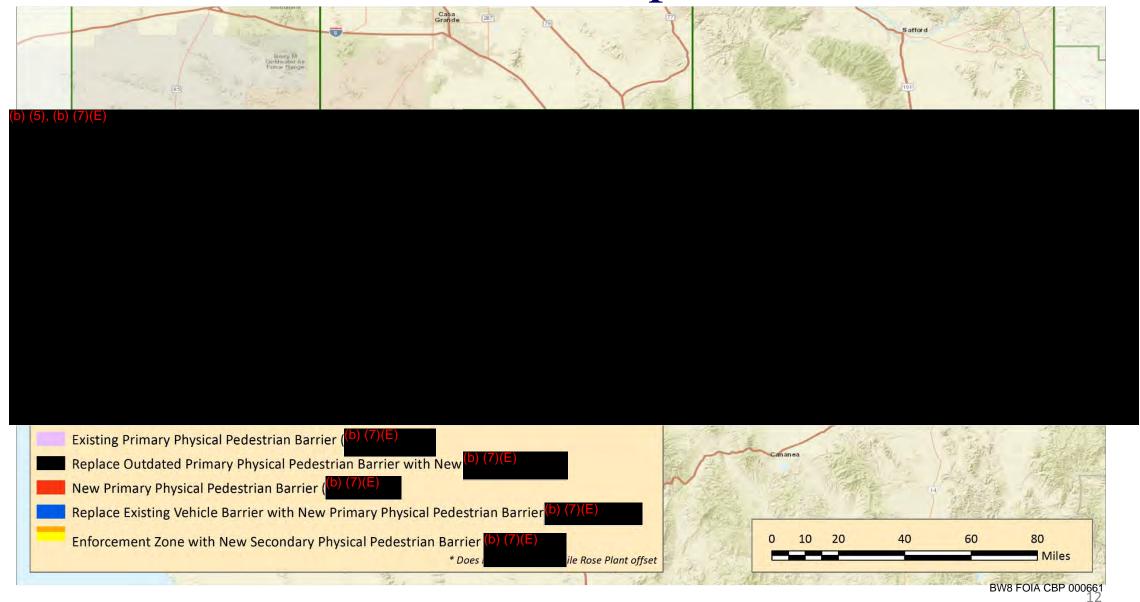
Barrier Type	End State Barrier Mileages	*Barrier Support Assets in Miles (e.g., Lights, RVS, Road)
New Primary PV-capable Barrier	(b) (5), (b) (7	)(E)
New Secondary Barrier**		
Replace <b>Vehicle Barrier*</b> with Primary PV-capable Barrier		
Replace Existing Primary Barrier w/PV-capable		
Replace Existing <b>Secondary Barrier</b> **		
*Any <b>vehicle barrier</b> that is to be replaced will be replaced with PV barrier (e.g., wall/fence designed against pedestrian <i>and</i> vehicle)  ** <b>Secondary Barrier</b> equates to an enforcement zone and comes with those assets listed on slide 1 bullet 1.		* These assets are located immediate proximity to the type of barrier they are meant to complement (i.e., a new/replacement primary barrier for which you need accompanying lights, road, etc.)

## Yuma Sector

# (b) (5), (b) (7)(E)

## **Tucson Sector**

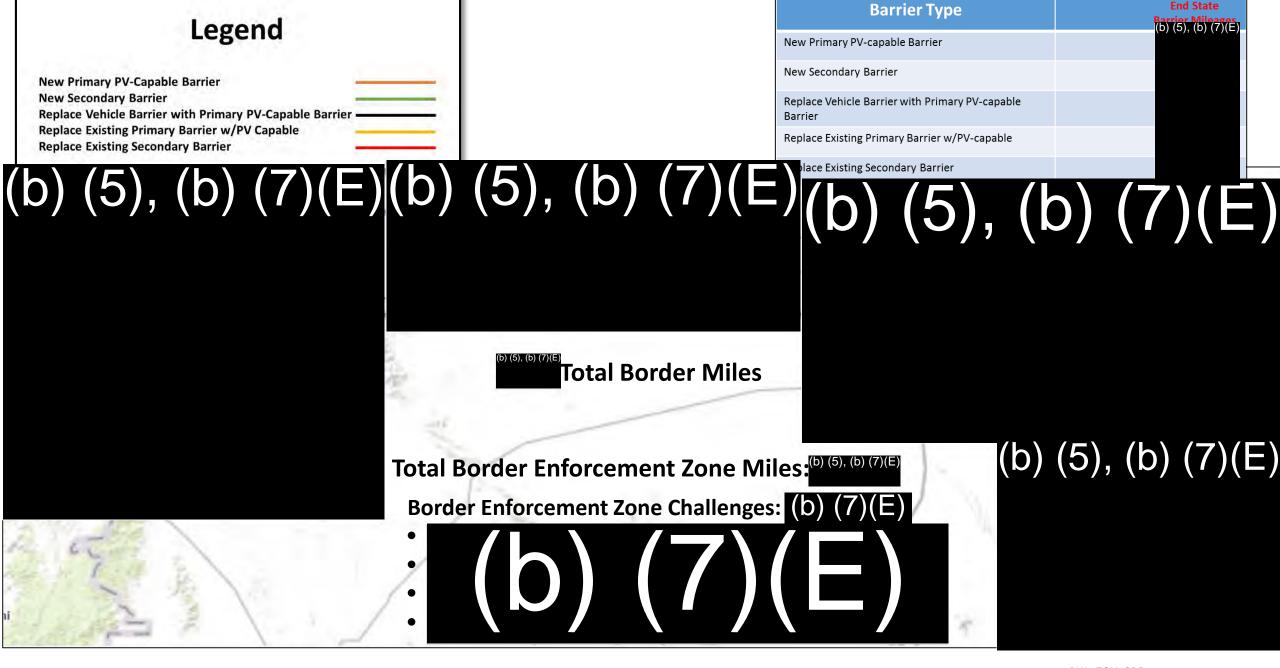
### eGIS Map



## End-State Miles Proposed Graph

Barrier Type	End State Barrier Mileages	*Barrier Support Assets in Miles (e.g., Lights, RVS, Road)
New Primary PV-capable Barrier	(b) (5), (b) (7)(E)	(h) (7)(E)
Replace Existing Primary Barrier w/PV-capable Barrier		(b) (7) (E)
Replace <b>Vehicle Barrier*</b> with Primary PV-capable Barrier		
New Secondary Barrier**		
Replace Existing Secondary Barrier**		
Enforcement Zone constructed between the two Barriers		Stadium style lights, paved road with a paved road with a cutable and dragable shoulder, and integrated persistent technology (b) (7)(E)
*Any <b>vehicle barrier</b> that is to be replaced will be replaced with PV barrier (e.g., wall/fence designed against pedestrian <i>and</i> vehicle)  ** <b>Secondary Barrier</b> equates to an enforcement zone and comes with those assets listed on slide 1 bullet 1.  * (b) (7)(E) offset along the border		* These assets are located in immediate proximity to the type of barrier they are meant to complement (i.e., a new/replacement primary barrier for which you need accompanying lights, road, etc.)

# El Paso Sector



#### El Paso Sector - Border Wall VTC

Barrier Type	End State Barrier Mileages	*Barrier Support Assets in Miles (e.g., Lights, RVS, Road)
New Primary PV-capable Barrier	(h) (5)	h) (7)(E)
New Secondary Barrier**	(D) (D),	(b) (7)(E)
Replace <b>Vehicle Barrier*</b> with Primary PV-capable Barrier	(b) (5), (b) (7)(E)	Support assets as included with Secondary Barrier (Border Enforcement Zone)
Replace Existing Primary Barrier w/PV-capable		Support assets as included with Secondary Barrier (Border Enforcement Zone)
Replace Existing Secondary Barrier**	(b) (5), (l	o) (7)(E)
*Any <b>vehicle barrier</b> that is to be replaced will be replaced with PV barrier (e.g., wall/fence designed against pedestrian <i>and</i> vehicle)  ** <b>Secondary Barrier</b> equates to an enforcement zone and comes with those assets listed on slide 1 bullet 1.		* These assets are located in immediate proximity to the type of barrier they are meant to complement (i.e., a new/replacement primary barrier for which you need accompanying lights, road, etc.)  BW8 FOIA CBP 000665

# Big Bend Sector

(b) (5), (b) (7)(E) Big Bend Sector Barrier

(b) (5), (b) (7)(E)





For Offical Use Only

Date: February, 2016 Map Projection: GCS\_WGS\_1984 Big Bend Sector Intelligence Unit Geospatial Intelligence Division



0 5 10 20 LILI BWG FOM UBF 000607 SIU1703003

#### BBT – BARRIER REQUEST OVERVIEW

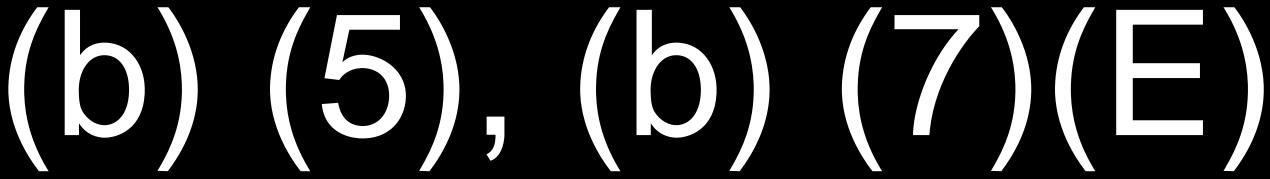
Barrier Type	End State Barrier Mileages	*Barrier Support Assets in Miles (e.g., Lights, RVS, Road)
New Primary PV-capable Barrier	(b) (5), (b) (7)(E)	(b) (7)(E), (b) (5)
New Secondary Barrier**	N/A	N/A
Replace <b>Vehicle Barrier*</b> with Primary PV-capable Barrier	N/A	N/A
Replace Existing Primary Barrier w/PV-capable	N/A	N/A
Replace Existing Secondary Barrier**	N/A	N/A
*Any <b>vehicle barrier</b> that is to be replaced will be replaced with PV barrier (e.g., wall/fence designed against pedestrian <i>and</i> vehicle)  ** <b>Secondary Barrier</b> equates to an enforcement zone and comes with those assets listed on slide 1 bullet 1.		* These assets are located in immediate proximity to the type of barrier they are meant to complement (i.e., a new/replacement primary barrier for which you need accompanying lights, road, etc.)

# Del Rio Sector



#### Del Rio Sector – Proposed







Carrizalejo -

Santa

Ana

La Colmena «

Guadalupe -

Buenavista .

Los Pintos -

## Backup Slide #2...

Barrier Type	End State Barrier Mileages	*Barrier Support Assets in Miles (e.g., Lights, RVS, Road)
New Primary PV-capable Barrier	0 (n/a)	
New Secondary Barrier**	(b) (5), (b) (7)(E)	
Replace <b>Vehicle Barrier*</b> with Primary PV-capable Barrier	0 (n/a)	
Replace Existing Primary Barrier w/PV-capable	0 (n/a)	
Replace Existing Secondary Barrier**	(n/a) Upgrading existing Secondary barriers in both DRS and EGT.	of upgrades
*Any <b>vehicle barrier</b> that is to be replaced will be replaced with PV barrier (e.g., wall/fence designed against pedestrian <i>and</i> vehicle)  ** <b>Secondary Barrier</b> equates to an enforcement zone and comes with those assets listed on slide 1 bullet 1.		* These assets are located in immediate proximity to the type of barrier they are meant to complement (i.e., a new/replacement primary barrier for which you need accompanying lights, road, etc.)

## Laredo Sector

#### Laredo Sector's Border Wall VTC

## Laredo Sector's Summary Page

Barrier Type	End State Barrier Mileages	*Barrier Support Assets in Miles (e.g., Lights, RVS, Road)
New Primary PV-capable Barrier	(b) (5), (	h) (7)(E)
New Secondary Barrier**	(0) (0), (	
Replace <b>Vehicle Barrier*</b> with Primary PV-capable Barrier	N/A	N/A
Replace Existing Primary Barrier w/PV-capable	N/A	N/A
Replace Existing <b>Secondary Barrier**</b>	N/A	Already accounted for by the Southwest Border Plan
*Any <b>vehicle barrier</b> that is to be replaced will be replaced with PV barrier (e.g., wall/fence designed against pedestrian <i>and</i> vehicle)  ** <b>Secondary Barrier</b> equates to an enforcement zone and comes with those assets listed on slide 1 bullet 1.	N/A	* These assets are located in immediate proximity to the type of barrier they are meant to complement (i.e., a new/replacement primary barrier for which you need accompanying lights, road, etc.)

\*

# Rio Grande Valley Sector







Legend 3-24-17

OFAM Barrier Proposal
Replacement Barrier
Primary Barrier
Existing Fence

OFAM Barrier Proposal (b) (5)

(b) (7)(E), (b) (5)

CBP 000676

# Backup Slide #2...

Barrier Type	End State Barrier Mileages	*Barrier Support Assets in Miles (e.g., Lights, RVS, Road)		
New Primary PV-capable Barrier	(b) (5), (b)	(7)(E)		
New Secondary Barrier**	N/A	N/A		
Replace <b>Vehicle Barrier*</b> with Primary PV-capable Barrier	N/A	N/A		
Replace Existing Primary Barrier w/PV-capable	1	of lights and roads		
Replace Existing Secondary Barrier**	N/A	N/A		
*Any <b>vehicle barrier</b> that is to be replaced will be replaced with PV barrier (e.g., wall/fence designed against pedestrian <i>and</i> vehicle)  ** <b>Secondary Barrier</b> equates to an enforcement zone and comes with those assets listed on slide 1 bullet 1.		* These assets are located in immediate proximity to the type of barrier they are meant to complement (i.e., a new/replacement primary barrier for which you need accompanying lights, road, etc.)		

### **BACKGROUND**

- There is a total of 654 miles of primary fencing on the southwest border. The majority of this fencing—more than 400 miles, was constructed by CBP between 2007 and 2008 in accordance with section 102 of the Illegal Immigration Reform and Immigrant Responsibility Act (IIRIRA).
- In support of the Executive Order issued in January, 2017, CBP is in the initial planning phases of refining 'wall' requirements and developing appropriate plans to support these requirements.

### STATUS UPDATE

- CBP is leveraging multiple methods to pursue innovative acquisition solutions to expedite wall construction schedules including direct engagement with vendors, alternate service providers (e.g. NAVFAC, AFCEC), requests for information (RFIs), etc.
- OFAM and USACE completed their site visits to El Paso and San Diego Sectors for information gathering.
- BPAM and OCC have placed the waiver for Phase 1 and all bollard style fence planning temporarily on hold to address the updated requirements outlined from the meeting with POTUS.
- BPAM PMO is moving forward on a new waiver to address a portion of wall construction in San Diego.
- A planning meeting will be held February 22, 2017 in Forth Worth, TX with USACE to discuss acquisition, construction, and roles and responsibilities.
- An internal CBP meeting will be held February 21<sup>st</sup> and 22<sup>nd</sup> in Indianapolis, IN to develop a Request for Proposal (RFP) on the wall design.



### **NEXT STEPS / KEY DATES**

- February 21-22: Design RFP Development Meeting
- February 22: USACE Planning Meeting
- February 23: Acquisition Review Team (ART/ARC) In-Brief (required process as part of ADE-1 decision)
- February 27: Industry Day, San Diego, CA (USACE & CBP to present requirements and answer questions to interested vendors on wall efforts)
- February 28: ARC Wall Program In-Brief with AC Borkowski
  - Date subject to change
- Ongoing: Continue to work with USBP to refine Southwest Border requirements.



### FOR DISCUSSION OR SMC ACTION

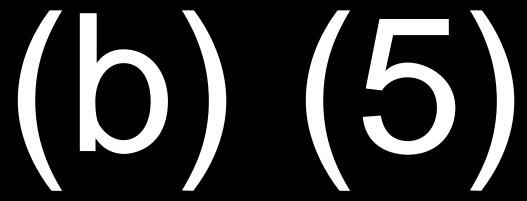
- The following risks have been identified and are included here for awareness:
  - Funding
  - Departmental requirements (e.g. Joint Requirements Council, Program Accountability & Risk Management)
  - Judicial action resulting in temporary restraining order(s) will stop construction, planning can continue
  - Delayed possession of required real estate
  - Negative/aggressive civic engagement both generally and with respect to how CBP proceeds with complying with the requirements of waived statutes (e.g. burial sites)
  - Construction on the Tohono O'odham Nation
  - Contractual protests
  - Need for additional staffing



# Back Up Slides



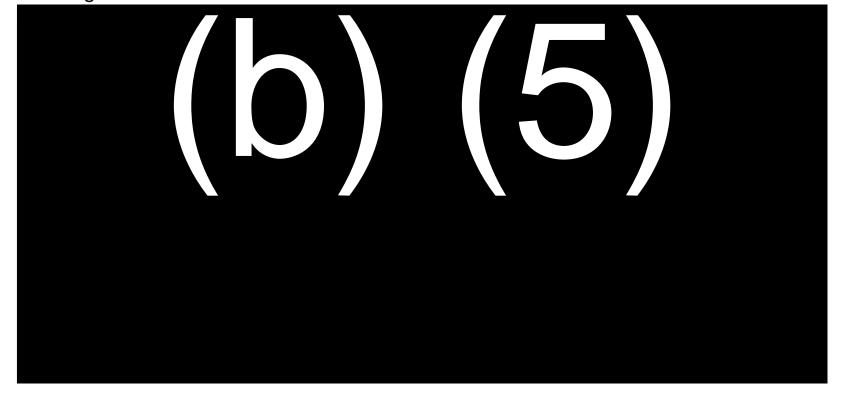
# Wall Expedited Strategies





# Acquisition Options – Estimated

- CBP is leveraging multiple methods to pursue innovative acquisition solutions to expedite wall construction schedules including direct engagement with vendors, alternate service providers (e.g. NAVFAC, AFCEC), requests for information (RFIs), etc.
- Strategies to date include:



### **BACKGROUND**

- There is a total of 654 miles of primary fencing on the southwest border. The majority of this fencing—more than 400 miles, was constructed by CBP between 2007 and 2008 in accordance with section 102 of the Illegal Immigration Reform and Immigrant Responsibility Act (IIRIRA).
- In support of the Executive Order issued in January, 2017, CBP is in the initial planning phases of refining 'wall' requirements and developing appropriate plans to support these requirements.

### STATUS UPDATE

- CBP is leveraging multiple methods to pursue innovative acquisition solutions to expedite wall construction schedules including direct engagement with vendors, alternate service providers (e.g. NAVFAC, AFCEC), requests for information (RFIs), etc.
- These acquisition options include expedited options such as 8(a); Rapid Response (through USACE) and a contract modification to the current NACO contract. See additional slides for detailed information.
- OFAM and USACE completed their site visits to El Paso and San Diego Sectors for information gathering.
- BPAM and OCC continue to move forward on the waiver for Phase 1, including clarifying all segments to included in this first waiver. Compiling information needed for the waiver for Phase II.
- A planning meeting will be held February 22, 2017 in Forth Worth, TX with USACE to discuss acquisition, construction, and roles and responsibilities.

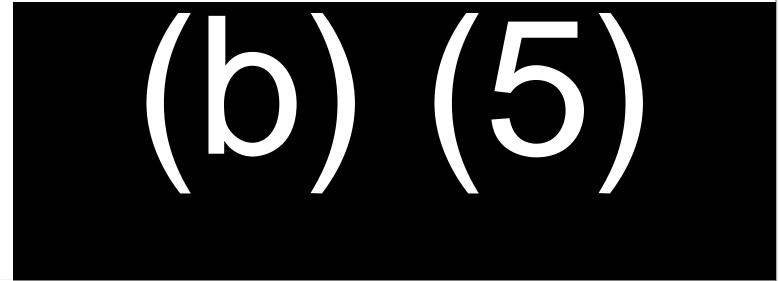
### **NEXT STEPS / KEY DATES**

- February 22: USACE Planning Meeting
- February 23:Acquisition Review Team (ART/ARC) In-Brief (required process as part of ADE-1 decision)
- Wall Acquisition Document Preparation (who with?) Indianapolis, IN
- February 27: Industry Day, San Diego, CA (USACE & CBP to present requirements and answer questions to interested vendors on wall efforts)
- February 28:ARC Wall Program In-Brief with AC (b) (6), (b) (7)(C)
- Continue to work with USBP to refine Phase II and Phase III requirements



### FOR DISCUSSION OR SMC ACTION

• The following risks have been identified and are included here for awareness:

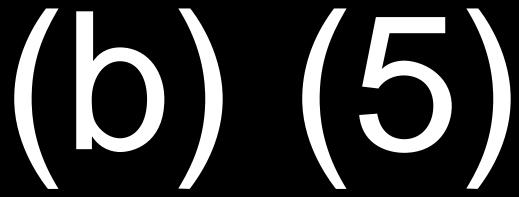


Proposed Wall Program Staffing*									
Entity	OFAM	USBP	осс	Acquisition	OPA	USACE	DOJ	Total	
Current Onboard	16	4	5	TBD	TBD	TBD	4	TBD	
Desired Onboard (D) (5)								TBD	
Total								TBD	

# Back Up Slides



# Wall Expedited Strategies

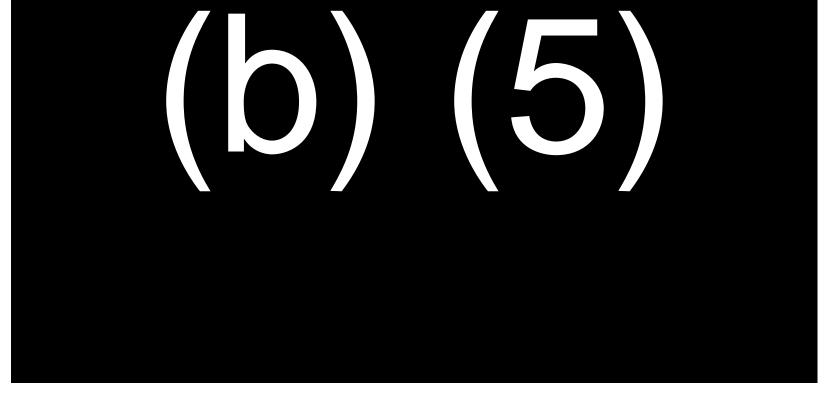




# Acquisition Options – Estimated

 CBP is leveraging multiple methods to pursue innovative acquisition solutions to expedite wall construction schedules including direct engagement with vendors, alternate service providers (e.g. NAVFAC, AFCEC), requests for information (RFIs), etc.

Strategies to date include:



#### SECTION C – DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

#### ARTICLE C.1 - INTRODUCTION

CBP seeks highly qualified contractors to assist in the development of a new border wall design standard as well as construct border wall and supporting tactical infrastructure/technology along the southwest border. CBP seeks highly qualified contractors to propose a border wall using an innovative approach to meet or exceed CBP's performance requirements. The proposed prototype designs shall not include the use of proprietary design or equipment.

CBP plans to enter into multiple-award, indefinite-delivery, indefinite-quantity (IDIQ), task order contracts for Border Wall Design/Build IDIQ contracts. The IDIQ shall include various, simultaneous task orders ranging from \$100,000 up to \$275,000,000 per task order.

The IDIQ shall be awarded to multiple contractors. All selected contractors will be awarded at least one (1) task order to construct from the two prototype designs to be selected by the Government. All selected contractors may also be provided an opportunity to propose on future task order requirements that are both design build and design bid build border wall and supporting tactical infrastructure and technology along the southwest border. Tactical infrastructure includes: access and patrol roads, fencing, drainage structures, motorized vehicle gates, light-emitting diode (LED) lighting, fiber optics and communication towers. Technology could include remote video surveillance systems (RVSS), ground sensor, etc.

#### ARTICLE C.2 – BACKGROUND

The Border Patrol and Air and Marine (BPAM) Program Management Office (PMO), within the Office of Facilities and Asset Management (OFAM), manages the planning, leasing, construction and sustainment of real property for the United States Border Patrol (USBP) and Air and Marine Operations (AMO) facilities and tactical infrastructure (TI). In Section 102 of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (IIRIRA), as amended, 8 U.S.C. § 1103, provided the Department of Homeland Security with the key authority to construct – in the most expeditious manner possible – the infrastructure necessary to deter and prevent illegal entry on our southwest border. Additionally, Executive Order 13767 directed the Government to build a border wall with Mexico. The BPAM PMO is responsible for overseeing the planning and construction of the border wall.

#### **ARTICLE C.3 – GENERAL INTENTIONS**

The general intent of this acquisition is to award multiple indefinite-delivery, indefinite-quantity (IDIQ), task order contracts for the design-build of border wall and associated tactical infrastructure/technology along the southwest border. The first task order shall result in the design and construction of the offeror's prototype wall(s) selected by the Government that meet at a minimum CBP's Border Wall requirements, which are described below. CBP shall use best practices and lessons learned obtained from the prototypes to develop a Government approved design standard that shall serve as the basis for future wall construction.

CBP currently has design standards for their remaining tactical infrastructure components, which shall be provided to the IDIQ holders upon contract award. Tactical Infrastructure is defined in section C.5 Definitions.

#### **C.3.1 Border Wall Design Considerations:**

Individual task orders under this IDIQ shall specify requirements for each task order. There are several principal requirements that shall be reflected and incorporated in any design-build activity under this IDIQ. Threshold requirements are intended to be minimums, although the terms of individual task orders may allow flexibility for trade-offs and variations among the threshold requirements and other factors. Objective requirements indicate features that, in addition to the thresholds, have significant value and would substantially enhance the effectiveness of a wall.

#### **Threshold Requirements**

- 1) The wall design shall be physically imposing in height. The Government's nominal concept is for a 30-foot wall. Offeror's should consider this height, but designs with heights of at least 18 feet are acceptable.
- 2) It shall not be possible for a human to climb to the top of the wall or access the top of the wall from either side unassisted (e.g. via the use of a ladder, etc.)
- 3) The wall design shall include anti-climb topping features that prevent scaling using common and more sophisticated climbing aids (e.g. grappling hooks, handholds, etc.)
- 4) The wall shall prevent digging or tunneling below it for a minimum of 6 feet below the lowest adjacent grade.
- 5) The wall shall prevent/deter for a minimum of 30 minutes the creation a physical breach of the wall (e.g., punching through the wall) no larger than 12-inches in diameter or square using sledgehammer, car jack, pick axe, chisel, battery operated impact tools, battery operated cutting tools, butane or propane torch or other similar hand-held tools.
- 6) The north side of wall (i.e. U.S.) should be aesthetically pleasing with color, anti-climb texture, etc., to be consistent with general surrounding environment. The manufacturing/construction process should facilitate changes in color and texture pursuant to site specific requirements.
- 7) The wall design shall be able to accommodate surface drainage.
- 8) The wall design shall be able to accommodate Border Patrol approved design standards for pedestrian and automated mechanized vehicle sliding gates (25 feet and 50 feet).
- 9) The wall design should be constructible to slopes up to 45 percent.
- 10) The wall fittings and fixtures shall be secured on the north side of the wall to shield from external attack.
- 11) The wall design should be cost effective to construct, maintain and repair.

#### **Objective Requirements**

- 1) Incorporating a see-through component/capability to the wall that facilitates situational awareness but does not negate the requirements listed above is operationally advantageous.
- 2) It is operationally advantageous that the design of first 12 feet of wall height (as measured from the highest adjacent grade) be adaptable to prevent/deter for a period of time greater than 30 minutes up to 4+ hours the creation of a physical breach of the wall (e.g., punching through the wall) no larger than 12-inches in diameter or square using sledgehammer, car jack, pick axe, chisel, battery operated impact tools, battery operated cutting tools, propane or butane or other similar hand-held tools.

#### **C.3.2 Design and Construction Requirements**

The Contractor's design professionals shall be the Designers of Record for all awarded task orders to this IDIQ. They must take full responsibility for the design and must meet professional and regulatory standards. All work provided by the Contractor's Designers of Record shall be prepared by or under the

direct supervision of licensed professional Engineers. Final calculations, drawings and specifications shall be affixed with signed and dated professional seals of the Architect or Engineer of Record for each specific professional discipline. Design and preparation of construction documents shall conform to all applicable codes and standards including, but not limited to, those listed within the RFP documents. The Contractor shall be responsible for the wall design to include typical sections. The Contractor shall be responsible for the coordination of design, engineering and construction disciplines in order to fulfill the requirements of this contract and to provide for a complete, integrated and functional design. All below grade utility crossings or other above or below grade interferences shall be coordinated, with any conflicts resolved, by the Contractor prior to start of construction.

The Contractor shall be responsible for the professional quality, code compliance, technical accuracy and coordination of all designs, drawings, specifications, and other documents or publications upon which the construction is based. Any additional Geotechnical information required by the contractor shall be acquired as part of the D/B proposal. Construction documents shall be sufficient to afford a clear understanding of the construction work required. The work shall be organized in a manner that shall assure thorough coordination between the various details on the drawings and between the drawings and the specifications. The Contractor shall cross-check all work and certify that all conflicts have been reconciled.

The Contractor shall be responsible for the coordination of all Sub-Contractors required to complete construction.

The Contractor shall provide all labor, supervision, tools, materials, equipment, transportation, and management necessary or incidental to provide planning, construction, repair and alterations for CBP.

#### **C.3.3** Emergency Circumstances

The Contractor shall provide the names, job titles, and contact information, to include telephone numbers (business, cell phones, facsimile, pager numbers, etc.) of a senior manager within the Contractor's organization, and a minimum of one similarly qualified alternate to serve as continuously available liaison with the Border Patrol Air & Marine (BPAM) Program Management Office (PMO) appointed Wall Program and Project Manager(s). The Contractor shall submit the above information to the Contracting Officer by email within two calendar days following receipt of the award. During the contract period, the Contracting Officer and the COR shall be notified immediately, by email, of any changes regarding the designated liaisons.

#### **C.3.4 Prototype Requirements**

The contractor shall provide for the design and construction of a full-scale prototype selected by the Government. The prototype wall shall be 30 feet long and meet all of the border wall requirements (with the exception of the drainage, steep slope and gate requirements). The prototype will be constructed at a location in San Diego, CA as determined by the Government.

#### C.3.4.1 Border Wall (Task Order)

The prototype shall include the following requirements from section C.3.1 of this Statement of work:

#### **Threshold Requirements**

1) The wall design shall be physically imposing in height. The Government's nominal concept is for a 30-foot wall. Offeror's should consider this height, but designs with heights of at least 18 feet are acceptable.

- 2) It shall not be possible for a human to climb to the top of the wall or access the top of the wall from either side unassisted (e.g. via the use of a ladder, etc.)
- 3) The wall design shall include anti-climb topping features that prevent scaling using common and more sophisticated climbing aids (e.g. grappling hooks, handholds, etc.)
- 4) The wall shall prevent digging or tunneling below it for a minimum of 6 feet below the lowest adjacent grade.
- 5) The wall shall prevent/deter for a minimum of 30 minutes the creation a physical breach of the wall (e.g., punching through the wall) no larger than 12-inches in diameter or square using sledgehammer, car jack, pick axe, chisel, battery operated impact tools, battery operated cutting tools, butane or propane torch or other similar hand-held tools.
- 6) The north side of wall (i.e. U.S.) should be aesthetically pleasing with color, anti-climb texture, etc., to be consistent with general surrounding environment. The manufacturing/construction process should facilitate changes in color and texture pursuant to site specific requirements.
- 7) The wall design shall be able to accommodate surface drainage.
- 8) The wall design shall be able to accommodate Border Patrol approved design standards for pedestrian and automated mechanized vehicle sliding gates (25 feet and 50 feet).
- 9) The wall design should be constructible to slopes up to 45 percent.
- 10) The wall fittings and fixtures shall be secured on the north side of the wall to shield from external attack.
- 11) The wall design should be cost effective to construct, maintain and repair.

#### **Objective Requirements**

- 1) Incorporating a see-through component/capability to the wall that facilitates situational awareness but does not negate the requirements listed above is operationally advantageous.
- 2) It is operationally advantageous that the design of first 12 feet of wall height (as measured from the highest adjacent grade) be adaptable to prevent/deter for a period of time greater than 30 minutes up to 4+ hours the creation of a physical breach of the wall (e.g., punching through the wall) no larger than 12-inches in diameter or square using sledgehammer, car jack, pick axe, chisel, battery operated impact tools, battery operated cutting tools, propane or butane or other similar hand-held tools.

#### **C.3.4.1 Mock-Up Construction**

The contractor shall design and construct a 10 ft. by 10 ft. mock-up of an exemplar section of the prototype at a location in San Diego, CA as determined by the Government. The mock-up shall replicate the structural design of the prototype's first 10 ft. of wall height (from the adjacent ground) and length to allow the government to test and evaluate the anti-destruct characteristics of the bidder's wall design. The mock-up shall meet all technical requirements except the foundation and aesthetics. The anti-dig and anti-climb characteristics will not be tested with the mock-up. The modified above ground foundation shall not affect the criteria outlined in specifications below.

The mock-up shall include the following requirements from section C.3.1 of this Statement of work:

- 1) The contractor shall construct the selected prototype's wall design with the greatest proposed breach prevention/deterrence time (i.e. 30 minutes to 4+ hours) relative to the creation a physical breach in the wall (e.g., punching through the wall) no larger than 12-inches in diameter or square using sledgehammer, car jack, pick axe, chisel, battery operated impact tools, battery operated cutting tools, butane or propane torch or other similar hand-held tools.
- 2) The wall fittings and fixtures shall be secured on the north side of the wall to shield from external attack
- 3) If the prototype wall design includes see-through component/capability than it shall be installed in the mock-up to test its anti-destruct capabilities

The mock-up shall also be constructed within two (2) weeks after notice to proceed (NTP) and shall be constructed concurrent to prototype construction. Within seven (7) calendar days of mock-up evaluation, the contractor shall remove structure and dispose of properly.

#### **C.3.4.2 Project Kick-off Meeting**

The contractor shall attend a Government led project kick-off meeting eight (8) calendar days after task order award. The contractor shall provide the following documents at the meeting:

- Detailed Schedule (recommended in Primavera) for the approach of the prototype and mock-up
  including but not limited to the following milestones: fabrication, site preparation, and
  install/construction to include a progress schedule. Schedule must include approach for
  construction within a 30 day timeline.
- Material and equipment staging plan
- Quality control (QC) plan
- Safety and security plan
- Documentation for personnel as outlined in Article C.10 Security

The contractor shall be prepared to brief the Government through their plan and timeline for construction.

#### C.3.4.3 Prototype Design-Build

The purpose of the prototype is to allow CBP to evaluate the features of the contractor's design for potential inclusion in a border wall standard to be developed by the government immediately following the construction and evaluation of the prototype designs.

The Contractor shall develop a design that meets the requirements cited in section C.3.1 excluding surface drainage and gates. The contractor shall demonstrate that the design meets the requirements through the use of industry accepted practices.

- The contractor shall conduct a final high-level design review with the Government at the project kick-off meeting.
- The contractor shall follow all quality control and safety plans provided to the Government during the contract kick-off meeting.
- The contractor shall be prepared to mobilize within 2 weeks of contract award. Contractor shall not begin construction until Notice To Proceed (NTP) is issued. Once given NTP, contractor shall complete prototype construction within 30 calendar days.
- The contractor shall ensure the design is compatible with the geography, terrain, and other characteristics of the prototype location. A Government provided geotechnical report will be provided with the Phase 2 solicitation. Additionally, the Government will hold a site visit at the prototype location 7 calendar days after the release of the phase 2 solicitation.
- The contractor shall produce and deliver to the government the 95% design package within 7 days of contract award.

#### C.3.4.4 Deliverables

Upon completion of the Prototype construction, the contractor shall provide the Government 100% "as-built" designs.

Construction of a 10 ft. wall segment mock-up as defined in section C.4.1.

Construction of a 30 ft. long prototype wall as defined in section C.4.3.

#### C.3.4.5 Government Furnished Information

Geotechnical site information for the prototype efforts is provided (Appendix A) for the Contractor's use. Additionally, the Government will provide 10 ft. contour topographic information of the site.

Best management practice requirements for meeting all environmental considerations in the construction area are attached (Appendix B).

#### ARTICLE C.4 – CBP LOCATIONS

Task orders under this contract may be performed at any of the following locations in the vicinity of the U.S. border with Mexico:

Southwest border in California, Arizona, New Mexico, and Texas

#### **ARTICLE C.5 – DEFINITIONS**

Contracting Officer. "Contracting officer" means a person with the authority to enter into, administer, and/or terminate contracts and make related determinations and findings. The term includes certain authorized representatives of the contracting officer acting within the limits of their authority as delegated by the contracting officer. "Termination contracting officer (TCO)" refers to a contracting officer who is settling terminated contracts. A single contracting officer may be responsible for duties in any or all of these areas. Reference in this regulation (48 CFR Chapter 1) to administrative contracting officer or termination contracting officer does not:

- 1) Require that a duty be performed at a particular office or activity; or
- 2) Restrict in any way a contracting officer in the performance of any duty properly assigned.
  - a) Contractor. The term Contractor as used herein refers to both the prime Contractors and any of their subcontractors. The Contractor shall ensure that subcontractors comply with the provisions of this contract.
  - b) Contractor Representative. A supervisor, superintendent, or manager assigned in accordance with the clause entitled SUPERINTENDENCE BY THE CONTRACTOR.
  - c) Contracting Officer Representative. Person(s) designated by the Contracting Officer to be the authorized Government representative in charge of the project.
  - d) Quality Assurance (QA). A method used by the CBP to provide some measures of control over the quality of purchased goods and/or services received.
  - e) Quality Control (QC). A method used by the Contractor to control quality of goods and/or services produced.
  - f) Scope of Work. Refers to a specific job which shall be ordered by an individual task order.

- g) Task Order. "Task order" means an order for services placed against an established contract or with Government sources.
- h) Tactical Infrastructure (TI): TI are physical components designed to assist the Border Patrol in securing the border. These components include but are not limited to wall, fence, roads, gates, bridges, lights, boat ramps, and grates. TI facilitates deterrents and acts as an impediment that slows, delays, contains and serves an obstacle to illicit crossborder activities.
- i) Wall: An 18-30 ft. tall barrier designed to prevent illegal entry and drug trafficking.
- j) Access Roads: Access roads generally provide access from public roads to the border patrol roads and to TI not accessible from a border road. Access roads are typically one-lane roads with pullouts and turnarounds to accommodate two-way traffic. The width of the access roads shall be 12 feet for one-lane roads but shall widen to 16 feet at curves and points of short sight distance. Access road width and pullout placement shall be designed to allow safe passing of two vehicles at the same time. The maximum width of access roads shall be 16 feet. Access roads are typically constructed of graded aggregate or native materials.
- k) Patrol Roads: Border patrol roads are generally oriented parallel with the border and are used for direct enforcement of the border. Border roads are typically 20 feet wide and are posted for 25 miles per hour travel. These roads shall be designed to allow safe passing of two vehicles at the same time. The roads are constructed of asphalt, concrete or graded aggregate depending on the topography and geotechnical conditions.
- Drainage Structures: Required to accommodate surface run-off and concentrated conveyance of storm water in a manner that keeps the border accessible to CBP during precipitation events.
- m) Gates: Gates in fencing and walls are needed to access International Boundary & Water Commission (IBWC) border monuments; accommodate large quantities of concentrated storm water run-off; and accommodate passage of authorized vehicles and personnel. The gates are manually operated with the exception of vehicle gates, which can be mechanized and automated if required.
- n) Border Lighting: Border lights typically consist of LED (Light-Emitting Diode) fixtures mounted on poles to illuminate areas along and in proximity to the border to facilitate Border Patrol enforcement activities.
- o) Fiber Optics Cable: Fiber optics cabling is typically installed in proximity to wall or fence and is used by CBP to facilitate telecommunications. CBP's OIT is responsible for providing and installing any electronics associated with the fiber optics cable.
- p) Telecommunications Towers: Towers ranging from 80 feet to several hundred feet used by CBP to provide tactical communications for Border Patrol command and control and safety. Towers shall include a shelter for equipment as well as a power supply, in some cases requiring solar power where electrical service is not available.

#### ARTICLE C.6 – SCOPE OF WORK – DESIGN-BUILD PLANNING SERVICES

For Design-Build requirements, the Contractor shall provide Architectural and Engineering (A-E) planning services. A/E services that are not part of a design-build requirement are not allowed under this contract. The Contractor is required to provide detailed surveying, site layout work, shop drawings, drawings and sketches, drawings detail expansion, engineering calculations, and other related work as required to properly prepare and accomplish all design-build work. The Design-Build Contractor shall be responsible for the coordination of design, engineering and construction disciplines in order to fulfill the requirements of this contract and to provide for a complete, integrated and functional design. All below grade utility crossings or other above or below grade interferences shall be coordinated, with any conflicts resolved, by the Contractor prior to start of construction. CBP shall negotiate the planning fees on a project-by-project basis. Construction documents shall be sufficient to afford a clear understanding of the construction work required. The work shall be organized in a manner that shall assure thorough coordination between the various details on the drawings and between the drawings and the specifications. The Contractor shall cross-check all work and certify that all conflicts have been reconciled. These guidelines establish the minimum level of quality and CBP-specific requirements for all design and construction projects at CBP. The minimum requirements in this document, as modified by project-specific variances, shall be thoroughly coordinated and reflected in the drawings and specifications. The Contractor shall also comply with the latest edition of all applicable national building codes and regulations. The degree of work shall vary depending on the complexity of individual projects. Project record drawings are not considered A-E planning services. Record drawings shall be provided upon the completion of every task order.

Computer-Aided Drafting and Design. Drawings shall be prepared using the latest AutoCAD release. The drawing submission shall include hard copy and electronic documents. Quantity, size and format to be specified in task order.

Plans and Specifications. The A-E shall develop project-specific plans and specifications. The A-E shall develop the new specification using the latest version of the AIA (American Institute of Architects) Master specs as the baseline. Provide hardcopy and electronic version in Microsoft Word. Quantity, size and format (including pdf) to be specified, as applicable, in each task order.

#### ARTICLE C.7 – SCOPE OF WORK – CONSTRUCTION SERVICES

Specifications shall be provided to the Contractor and shall be utilized under this contract, unless otherwise directed by the Contracting Officer.

The Contractor shall be responsible for, but not limited to, the following services:

- 1) Construction services. Construction services shall be provided in response to individual task orders. The work described herein extends beyond the conventional, single project construction concept in that it may involve the planning, scheduling, coordination, procuring, and installation of a fluctuating series of related tasks.
- 2) Work and Services. The work to be performed under this contract shall include furnishing all labor, materials, supervision, coordination, miscellaneous equipment and materials required for full and complete execution of the work as defined herein and the attached standard details.
- 3) The Contractor shall perform all management, supervision, and other administrative activities necessary to assure performance in strict compliance with the terms and conditions of this contract.

- 4) The Contractor shall provide all labor, materials, equipment, supplies, permits, fees, and consultant services required to construct and install the border wall and associated tactical infrastructure including but not necessarily limited to access roads, patrol roads, fiber optics cable, drainage structures, border lighting, and tactical communication towers.
- 5) The Contractor shall be responsible for the professional quality, code compliance, technical accuracy and coordination of all designs, drawings, specifications and other documents or publications upon which the construction is based.
- 6) All survey performed by the Contractor, including but not limited to construction staking, topographic survey, and as-built drawings, during the design and construction shall be performed under the direction of a licensed professional Surveyor.
- 7) All construction required of the Contractor to complete the construction of the wall and associated tactical infrastructure shall be in accordance with the criteria contained herein using industry standard materials and efficient practices. The Contractor shall buy materials and equipment accepted within the construction industry. The materials selected shall be of high quality, durable and easily maintained.
- 8) Beginning on the date of Notice to Proceed (NTP) on this contract, the Contractor shall be continuously available to Custom and Border Protections' representatives for response to requests for information, discussion of contract performance, and other contract administration activities such as billing or payment, etc.
- 9) The Contractor shall be responsible for the coordination of all Sub-Contractors required to complete construction.
- 10) The Contractor shall adhere to all construction related Best Management Practices (BMP) identified by CBP in each Task Order Award. BMPs outline the Government's requirements for meeting all environmental considerations in the construction area. The Contractor shall be required to participate in CBP provided BMP awareness training at the kickoff of the project. CBP shall conduct routine monitoring of BMP implementation during construction activities. The Contractor shall be required to immediately correct any non-compliant BMP upon notification by CBP.
- 11) Neither the Contractor, nor the Contractor's representatives, shall release any report, data, specification, photograph, cost estimate, nor other information in any form obtained or prepared under this contract without prior written approval of the Contracting Officer.
- 12) Upon completion of construction the Contractor shall submit Final As-Built Drawings and Specifications. Other construction records, including RFI's and QA/QC documents, shall be submitted in Adobe Acrobat PDF format.
- 13) Record Documents. During the progress of the job, the Contractor shall keep a careful record at the job site of all changes and corrections from the layouts shown on the drawings. The Contractor shall enter such changes and corrections on contract record drawings and shall indicate, in addition to all changes and corrections, the actual location of all sub-surface utility lines. In order that the location of the lines and appurtenances may be determined in the event the surface openings or indicators become covered over or obscured, the record drawings shall show, by offset dimensions to two permanently fixed surface fixtures, the end of each run, and each change in direction. Valve, splice boxes, and similar appurtenances

shall be located by dimensioning along the utility run from a reference point. The average depth below the surface of each run shall also be recorded. At the time of final acceptance of each structure or facility involved under the contract, the Contractor shall submit to the Contracting Officer record documents.

- 14) Record of Materials. The Contractor is required to furnish a record of materials used in the construction upon completion of each task order. Submission of this data is a condition for final payment. Where several manufacturers 'brands, types, or classes of the item listed have been used in the project, the specific areas where each item was used shall be designated. Designation shall key to the areas and spaces depicted on the record drawings.
- 15) Contractor's Management and Supervision. The Contractor shall provide and maintain a professional staff for the management and supervision of all task orders. The Contractor shall obtain any other services deemed necessary for effective execution of task orders.

#### ARTICLE C.8 – DESIGN AND CONSTRUCTION SCHEDULE

Within seven (7) calendar days of receipt of any task order award (including the prototype task order), the Contractor shall submit a proposed design and/or construction schedule for review and approval by the Contracting Officer's Representative. The schedule shall be approved in writing by the Contracting Officer's Representative before any work is started. The schedule shall be prepared in Critical Path Method (CPM) – program based format following the outline of the component divisions and subsections of the project specifications. The schedule shall be prepared in Primavara (or equivalent scheduling software) in sufficient size and detail to clearly indicate:

The proposed sequence of design and construction including required phasing of the work the design and construction submissions (e.g. design submissions, shop drawings, samples, and other submittal information). This should include projected submittal approval dates (allow 10 working days for review) and material delivery dates. Contractor shall provide Work Breakdown Schedule (WBS) for approval which shall include the activity identification system for labeling all work activities, costs assigned to all activities shall equal the contract value, including material and equipment.

The Project Schedule shall include time scaled network diagrams; computer generated mathematical analysis reports, and associated reports as required by this Specification section. The mathematical analysis reports shall include, at a minimum, the following information:

- 1) Activity number(s) and descriptions;
- 2) All WBS codes;
- 3) Original and remaining durations for each activity;
- 4) Early start by calendar date;
- 5) Early finish by calendar date;
- 6) Late start by calendar date;
- 7) Late finish by calendar date;
- 8) Actual start by calendar date;
- 9) Actual finish by calendar date
- 10) Total float in work days;
- 11) Monetary value of each activity;
- 12) Percentage of activity complete linked to remaining duration;
- 13) Contractors earnings, based on the Contractors reported portion of activities completed and accepted; and

14) Imposed constraints.

All requirements shall be specified on a task order basis.

#### ARTICLE C.9 - CONTRACTOR QUALITY CONTROL (CQC) PROGRAM

A general description of the Contractor's CQC Program shall be available for CBP review during the pre-award survey. Two copies of the complete CQC Program shall be provided to the Contracting Officer for review and approval within 30 days after award of the master contract and as changes are made thereafter. The program shall include:

- 1) A quality control inspection system covering all contract services. It must specify areas to be inspected on both a scheduled or unscheduled basis and how inspections are to be conducted.
- 2) The name(s) and qualifications of the individual(s) tasked to perform the quality control inspections, and the extent of their authority.
- 3) A method for identifying deficiencies in the quality of services performed and taking corrective action before the level of performance becomes mandatory.

A file of all Quality Control Inspections, Inspection results, and any corrective action required, shall be maintained by the Contractors throughout the term of this contract. This file shall be the property of the CBP and shall be made available to the Contracting Officer within one hour of request. The file shall be turned over to the Contracting Officer within five days after completion/termination of the task order and prior to final payment.

#### ARTICLE C.10 KEY PERSONNEL

The contractor shall provide key personnel as defined below.

#### **Construction Superintendent:**

Coordinates and oversees completion of the construction of the project. Manages the site for the contractor and serves as field point of contact for the construction effort. Provides construction reports as per this statement of work. Coordinates scheduling of site activities with Government Project Manager and site representatives. The credentials of the proposed Construction Superintendant(s) will be reviewed to ensure they have at least ten (10) years of experience on construction projects. Provides list of employees in time to complete vetting and ensures only vetted personnel are on job site.

#### Project Manager:

Coordinate and oversee completion of activities in all phases of the project. Manages the entire project and serves as the main contact for the government for the project design and construction effort. Integrates and coordinates the project with design and field personnel. Ensures site personnel work with Government project team for scheduling of deliveries and construction activities. The credentials of the proposed Project Manager will be reviewed to ensure they have a technical degree and/or equivalent experience, and at least five (5) years of experience on construction projects. The credentials of the proposed Project Manager will be reviewed to ensure they have a bachelor's degree in engineering or related technical field or business/management. Additionally, a minimum of 5 years post-graduate experience managing and supervising construction projects is required.

#### Lead Designer:

Serves as design lead for project. Primary design contact to Government to provide all information requested to satisfy design requirements. Must be a licensed professional engineer. Ensures design meets or exceeds all government requirements. The credentials of the proposed Lead Designer will be reviewed to ensure they are a registered professional engineer and/or licensed Architect. Professional

Registration and/or Licensing is required in California. Texas, New Mexico, and Arizona are preferred as well.

#### **ARTICLE C.11 SECURITY**

It shall be the contractor's responsibility to furnish their own security for personnel and to safeguard their equipment during the entire project lifecycle. This shall include, but not be limited to, the actual project sites and/or staging areas and storage facilities. The Customs and Border Protection shall not provide security for the contractor. The Border Patrol agents shall respond to routine security matters/threats if and when they occur. A call in number shall be provided for the USBP to be used in emergency situations. As part of the security requirement, the contractor shall be responsible for the development of a Security Plan in conjunction with the Health and Safety Plan. The detailed Security Plan shall include details such as, but not limited to; "fall back positions", evacuation routines and methods, muster area, medical staff members/availability, number of security personnel, qualifications, years of experience, etc. in the event of a hostile attack. This plan shall be reviewed by Contracting Officer's Representative for inspection and final acceptance prior to activities. The Contractor shall bring three copies of the security plan to the pre-construction conference.

The contractor shall be responsible for submitting a list of all personnel required at the jobsites for verification by CBP prior to conducting activities. Activities include, but are not limited to; site investigations, surveys, and construction. No employee shall be allowed on site until screened and checked for criminal history and proper immigration status. Any personnel having questionable history/backgrounds shall be rejected and not authorized to enter the jobsite. This list marked "CONFIDENTIAL" shall be submitted to the Contracting Officer for forwarding to Border Patrol personnel.

To facilitate the screening and checking of each employee entering in or working on Federal property, the General Contractor shall submit:

- The individual's full name
- Company Name
- Date of Birth (DOB)
- Social Security Number
- Driver's Licenses and/or State Identification Number
- Place of Birth (POB)

After submission of requirements stated above, the Contractor shall proceed with all work unless further notified by the Government.

Employee Identification Badges: Contractor personnel shall wear visible Contractor-furnished employee identification badges while physically on the construction site. Each badge shall include, as a minimum, the company name, employee name, photograph, Contract Title, Contract Number, and the expiration date of the badge.

D) Reporting of New and Departing Employees

The Contractor shall notify the Contract Officer Representative (COR) and Contracting Officer within five business days of staffing changes for positions that require suitability determinations as follows:

i. New Employees: Provide the name, position title, e-mail address, and phone number of the new employee. Provide the name, position title and suitability level held by the former

incumbent. If the employee is filling a new position, provide a description of the position and the Government shall determine the appropriate security level.

ii. Departing Employees: 1) Provide the name, position title, and security clearance level held by or pending for the individual; and 2) Perform and document the actions identified in the "Employee Separation Checklist" when a Contractor/Subcontractor employee terminates work under this contract. All documentation shall be made available to the COTR and/or Contracting Officer upon request.

#### **ARTICLE C.12 REPORTING REQUIREMENTS**

#### 1) TECHNICAL PROGRESS REPORTS

In addition to the required reports set forth elsewhere in this Schedule, the preparation and submission of regularly recurring Technical Progress Reports shall be required in any contract resulting from this solicitation. These reports shall require descriptive information about the activities under taken during the reporting period and shall require information about planned activities for future reporting periods. The frequency and specific content of these reports shall be determined prior to contract award for monitoring of the overall IDIQ contract and on a task order basis for each awarded task basis.

For proposal preparation purposes only, it is estimated that in addition to the required electronic version(s) 5 hard copies of these reports shall be required as follows:

#### 2) OTHER REPORTS/DELIVERABLES

All required reports and deliverables shall be specified in each task order issued by the Government.

#### ARTICLE C.13 SPECIAL CONSIDERATIONS

Neither the Contractor nor their subcontractor or representative shall release or publish any sketch, photograph, report or other material of any nature derived or prepared under this task order without specific written permission of the Contracting Officer except as specifically provided in the SOW.

Copyright shall not be claimed by the Contractor for any materials produced under this task order. All such materials are to remain within the public domain. The Contractor and those in their employ may not, during the term of the agreement, present reports of research from this project to various professional societies and publications. Abstracts and copies of these reports, presentations, or articles utilizing work sponsored by this task order shall not be provided to the POC for approval prior to publication or presentation. In the event the Contractor encounters problems in fulfilling performance

requirements, or when difficulties are anticipated in complying with the task order schedule or dates, or whenever the Contractor has knowledge a potential situation is delaying or threatening to delay timely performance of tasks, the Contractor shall immediately notify the Government Representative by phone and in writing noting all relevant details.

The Government requires unlimited rights in any material first produced in the performance of this Contract, in accordance with the FAR clause at 52.217-14. In addition, for any material first produced in the performance of this contract, the materials may be shared with other agencies or contractors during the period of performance of this task order, or after its termination. For any subcontractors or teaming partners, the Contractor shall ensure at proposal submission that the subcontractors and /or teaming partners are willing to provide the data rights required under this task order.

#### END OF STATEMENT OF WORK

#### SECTION C – DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

#### ARTICLE C.1 - INTRODUCTION

CBP seeks highly qualified Contractors to assist in the development of a new border wall design standard as well as construct border wall and supporting tactical infrastructure/technology along the southwest border. CBP seeks highly qualified Contractors to propose a border wall using an innovative approach to meet or exceed CBP's performance requirements. The proposed prototype designs shall not include the use of proprietary design or equipment.

CBP plans to enter into multiple-award, indefinite-delivery, indefinite-quantity (IDIQ), task order contracts for Border Wall Design/Build Construction. The IDIQ shall include various, simultaneous task orders ranging from \$100,000 up to \$275,000,000 per task order.

The IDIQ shall be awarded to multiple Contractors. All selected Contractors will be awarded at least one (1) task order to construct from the two prototype designs to be selected by the Government. All selected Contractors may also be provided an opportunity to propose on future task order requirements that are anticipated to be both design build and design bid build task orders for border wall and supporting tactical infrastructure and technology along the southwest border. Tactical infrastructure includes: access and patrol roads, fencing, drainage structures, motorized vehicle gates, light-emitting diode (LED) lighting, fiber optics and communication towers. Technology could include remote video surveillance systems (RVSS), ground sensor, etc.

#### ARTICLE C.2 – BACKGROUND

The Border Patrol and Air and Marine (BPAM) Program Management Office (PMO), within the Office of Facilities and Asset Management (OFAM), manages the planning, leasing, construction and sustainment of real property for the United States Border Patrol (USBP) and Air and Marine Operations (AMO) facilities and tactical infrastructure (TI). In Section 102 of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (IIRIRA), as amended, 8 U.S.C. § 1103, provided the Department of Homeland Security with the key authority to construct – in the most expeditious manner possible – the infrastructure necessary to deter and prevent illegal entry on our southwest border. Additionally, Executive Order 13767 directed the Government to build a border wall with Mexico. The BPAM PMO is responsible for overseeing the planning and construction of the border wall.

#### **ARTICLE C.3 – GENERAL INTENTIONS**

The general intent of this acquisition is to award multiple indefinite-delivery, indefinite-quantity (IDIQ), task order contracts for the design-build of border wall and associated tactical infrastructure/technology along the southwest border. The first task order is anticipated to result in the design and construction of the prototype wall(s) selected by the Government that meet at a minimum CBP's Border Wall requirements, which are described below. CBP shall use best practices and lessons learned obtained from the prototypes to develop a Government approved design standard that is intended to serve as the basis for future wall construction.

CBP currently has design standards for their remaining tactical infrastructure components, which shall be provided to the IDIQ holders upon contract award. Tactical Infrastructure is defined in section C.5 Definitions.

#### **C.3.1 Border Wall Design Considerations:**

Individual task orders under this IDIQ shall specify requirements for each task order. There are several principal requirements that shall be reflected and incorporated in any design-build activity under this IDIQ. Threshold requirements are intended to be minimums, although the terms of individual task orders may allow flexibility for trade-offs and variations among the threshold requirements and other factors. Objective requirements indicate features that, in addition to the thresholds, have significant value and would substantially enhance the effectiveness of a wall.

#### **Threshold Requirements**

- 1) The wall design shall be physically imposing in height. The Government's nominal concept is for a 30-foot wall. Offeror's should consider this height, but designs with heights of at least 18 feet are acceptable.
- 2) It shall not be possible for a human to climb to the top of the wall or access the top of the wall from either side unassisted (e.g. via the use of a ladder, etc.)
- 3) The wall design shall include anti-climb topping features that prevent scaling using common and more sophisticated climbing aids (e.g. grappling hooks, handholds, etc.)
- 4) The wall shall prevent digging or tunneling below it for a minimum of 6 feet below the lowest adjacent grade.
- 5) The wall shall prevent/deter for a minimum of 30 minutes the creation a physical breach of the wall (e.g., punching through the wall) larger than 12-inches in diameter or square using sledgehammer, car jack, pick axe, chisel, battery operated impact tools, battery operated cutting tools, butane or propane torch or other similar hand-held tools.
- 6) The north side of wall (i.e. U.S. facing side) shall be aesthetically pleasing in color, anti-climb texture, etc., to be consistent with general surrounding environment. The manufacturing/construction process should facilitate changes in color and texture pursuant to site specific requirements.
- 7) The wall design shall be able to accommodate surface drainage.
- 8) The wall design shall be able to accommodate Border Patrol approved design standards for pedestrian and automated mechanized vehicle sliding gates (25 feet and 50 feet).
- 9) The wall design shall be constructible to slopes up to 45 percent.
- 10) The wall fittings and fixtures shall be secured on the north side of the wall to shield from external attack.
- 11) The wall design should be cost effective to construct, maintain and repair.

#### **Objective Requirements**

- 1) Incorporating a see-through component/capability to the wall that facilitates situational awareness but does not negate the requirements listed above is operationally advantageous.
- 2) It is operationally advantageous that the design of first 12 feet of wall height (as measured from the highest adjacent grade) be adaptable to prevent/deter for a period of time greater than 30 minutes up to 4+ hours the creation of a physical breach of the wall (e.g., punching through the wall) larger than 12-inches in diameter or square using sledgehammer, car jack, pick axe, chisel, battery operated impact tools, battery operated cutting tools, propane or butane or other similar hand-held tools.

#### **C.3.2 Design and Construction Requirements**

The Contractor's design professionals shall be the Designers of Record for all awarded task orders to this IDIQ. They must take full responsibility for the design and must meet professional and regulatory

standards. All work provided by the Contractor's Designers of Record shall be prepared by or under the direct supervision of licensed professional Engineers. Final calculations, drawings and specifications shall be affixed with signed and dated professional seals of the Architect or Engineer of Record for each specific professional discipline. Design and preparation of construction documents shall conform to all applicable codes and standards including, but not limited to, those listed within the RFP documents. The Contractor shall be responsible for the wall design. The Contractor shall be responsible for the coordination of design, engineering and construction disciplines in order to fulfill the requirements of this contract and to provide for a complete, integrated and functional design. All below grade utility crossings or other above or below grade interferences shall be coordinated, with any conflicts resolved, by the Contractor prior to start of construction.

The Contractor shall be responsible for the professional quality, code compliance, technical accuracy and coordination of all designs, drawings, specifications, and other documents or publications upon which the construction is based. Any additional Geotechnical information required by the Contractor shall be acquired as part of the design-build proposal. Construction documents shall be sufficient to afford a clear understanding of the construction work required. The work shall be organized in a manner that shall assure thorough coordination between the various details on the drawings and between the drawings and the specifications. The Contractor shall cross-check all work and certify that all conflicts have been reconciled.

The Contractor shall be responsible for the coordination of all Sub-Contractors required to complete construction.

The Contractor shall provide all labor, supervision, tools, materials, equipment, transportation, and management necessary or incidental to provide planning, construction, repair and alterations for CBP.

#### **C.3.3** Emergency Circumstances

The Contractor shall provide the names, job titles, and contact information, to include telephone numbers (business, cell phones, facsimile, pager numbers, etc.) of a senior manager within the Contractor's organization, and a minimum of one similarly qualified alternate to serve as continuously available liaison with the BPAM PMO appointed Wall Program and Project Manager(s). The Contractor shall submit the above information to the Contracting Officer by email within two calendar days following receipt of the award. During the contract period, the Contracting Officer and the Contracting Officer's Representative (COR) shall be notified immediately, by email, of any changes regarding the designated liaisons.

#### **C.3.4 Prototype Requirements**

The Contractor shall provide for the design and construction of a full-scale prototype selected by the Government. The prototype wall shall be 30 feet long and meet all of the border wall requirements specified herein (with the exception of the drainage, steep slope and gate requirements). The prototype will be constructed at a location in San Diego, CA as determined by the Government.

#### C.3.4.1 Border Wall (Task Order)

The prototype shall include the following requirements from section C.3.1 of this Statement of Work:

#### **Threshold Requirements**

1) The wall design shall be physically imposing in height. The Government's nominal concept is for a 30-foot wall. Offeror's should consider this height, but designs with heights of at least 18 feet are acceptable.

- 2) It shall not be possible for a human to climb to the top of the wall or access the top of the wall from either side unassisted (e.g. via the use of a ladder, etc.)
- 3) The wall design shall include anti-climb topping features that prevent scaling using common and more sophisticated climbing aids (e.g. grappling hooks, handholds, etc.)
- 4) The wall shall prevent digging or tunneling below it for a minimum of 6 feet below the lowest adjacent grade.
- 5) The wall shall prevent/deter for a minimum of 30 minutes the creation a physical breach of the wall (e.g., punching through the wall) no larger than 12-inches in diameter or square using sledgehammer, car jack, pick axe, chisel, battery operated impact tools, battery operated cutting tools, butane or propane torch or other similar hand-held tools.
- 6) The north side of wall (i.e. U.S. facing side) shall be aesthetically pleasing in color, anti-climb texture, etc., to be consistent with general surrounding environment. The manufacturing/construction process should facilitate changes in color and texture pursuant to site specific requirements.
- 7) The wall design shall be able to accommodate surface drainage.
- 8) The wall design shall be able to accommodate Border Patrol approved design standards for pedestrian and automated mechanized vehicle sliding gates (25 feet and 50 feet).
- 9) The wall design shall be constructible to slopes up to 45 percent.
- 10) The wall fittings and fixtures shall be secured on the north side of the wall to shield from external attack.
- 11) The wall design should be cost effective to construct, maintain and repair.

#### **Objective Requirements**

- 1) Incorporating a see-through component/capability to the wall that facilitates situational awareness but does not negate the requirements listed above is operationally advantageous.
- 2) It is operationally advantageous that the design of first 12 feet of wall height (as measured from the highest adjacent grade) be adaptable to prevent/deter for a period of time greater than 30 minutes up to 4+ hours the creation of a physical breach of the wall (e.g., punching through the wall) no larger than 12-inches in diameter or square using sledgehammer, car jack, pick axe, chisel, battery operated impact tools, battery operated cutting tools, propane or butane or other similar hand-held tools.

#### **C.3.4.2 Mock-Up Construction**

The Contractor shall design and construct a 10 ft. by 10 ft. mock-up of an exemplar section of the prototype at a location in San Diego, CA as determined by the Government. The mock-up shall replicate the structural design of the prototype's first 10 ft. of wall height (from the adjacent ground) and length to allow the Government to test and evaluate the anti-destruct characteristics of the bidder's wall design. The mock-up shall meet all technical requirements except the anti-dig and aesthetics. The anti-dig and anti-climb characteristics will not be tested with the mock-up. The modified above ground foundation shall not affect the criteria outlined in specifications below.

The mock-up shall include the following requirements from section C.3.4.1 of this Statement of work:

- 1) The Contractor shall construct the selected prototype's wall design with the greatest proposed breach prevention/deterrence time (i.e. 30 minutes to 4+ hours) relative to the creation a physical breach in the wall (e.g., punching through the wall) no larger than 12-inches in diameter or square using sledgehammer, car jack, pick axe, chisel, battery operated impact tools, battery operated cutting tools, butane or propane torch or other similar hand-held tools.
- 2) The wall fittings and fixtures shall be secured on the north side of the wall to shield from external attack.

3) If the prototype wall design includes see-through component/capability then it shall be installed in the mock-up to test its anti-destruct capabilities

The mock-up shall be constructed within two (2) weeks after notice to proceed (NTP) and shall be constructed concurrent to prototype construction. Within seven (7) calendar days of mock-up completion of evaluation, the Contractor shall remove the structure and dispose of properly.

#### **C.3.4.3 Project Kick-off Meeting**

The Contractor shall attend a Government led project kick-off meeting eight (8) calendar days after task order award. The Contractor shall provide the following documents at the meeting:

- Detailed Schedule (recommended in Primavera) for the approach of the prototype and mock-up including, but not limited to, the following milestones: fabrication, site preparation, and install/construction to include a progress schedule. Schedule must include approach for completing construction within a 30 calendar day timeline.
- Material and equipment staging plan
- Quality control (QC) plan
- Safety and security plan
- Documentation for personnel as outlined in Article C.10 Security

The Contractor shall be prepared to brief the Government on its plan and timeline for construction.

#### **C.3.4.4 Prototype Design-Build**

The purpose of the selected prototype(s) is to allow CBP to evaluate the features of the Contractor's design for potential inclusion in a border wall standard to be developed by the Government immediately following the construction and evaluation of the prototype designs.

The Contractor shall develop a design that meets the requirements cited in section C.3.4.1 excluding surface drainage and gates. The Contractor shall demonstrate that the design meets the requirements through the use of industry accepted practices.

- The Contractor shall conduct a final high-level design review with the Government at the project kick-off meeting.
- The Contractor shall follow all quality control and safety plans provided to the Government during the contract kick-off meeting.
- The Contractor shall be prepared to mobilize within 2 weeks of contract award. Contractor shall not begin construction until Notice to Proceed (NTP) is issued. Once given NTP, Contractor shall complete prototype construction within 30 calendar days.
- The Contractor shall ensure the design is compatible with the geography, terrain, and other characteristics of the prototype location. A Government provided geotechnical report will be provided with the Phase 2 solicitation. Additionally, the Government will hold a site visit at the prototype location 7 calendar days after the release of the phase 2 solicitation.
- The Contractor shall produce and deliver to the Government the 95% design package within 7 calendar days of contract award.
- The Contractor shall be responsible for any staging areas as required at an offsite location. (I.e. no staging on the border will be made available by the Government).

#### C.3.4.5 Disposal

If, upon completion of its evaluation, the Government directs the Contractor to remove the prototype and dispose of it properly off-site, the Contractor shall complete the removal within (14) calendar days of notification by the Government.

#### C.3.4.6 Deliverables

Upon completion of the Prototype construction, the Contractor shall provide the Government 100% "as-built" designs.

Construction of a 10 ft. wall segment mock-up as defined in section C.3.4.2.

Construction of a 30 ft. long prototype wall as defined in section C.3.4.1.

#### C.3.4.7 Government Furnished Information

Geotechnical site information for the prototype efforts will be provided in Phase 2 of the solicitation for the Contractor's use. Additionally, the Government will provide 10 ft. contour topographic information of the site.

Best management practice requirements for meeting all environmental considerations in the construction area will be provided in Phase 2 of the solicitation.

#### ARTICLE C.4 – CBP LOCATIONS

Task orders under this contract may be performed at any of the following locations in the vicinity of the U.S. border with Mexico:

Southwest border in California, Arizona, New Mexico, and Texas

#### **ARTICLE C.5 – DEFINITIONS**

Contracting Officer. "Contracting officer" means a person with the authority to enter into, administer, and/or terminate contracts and make related determinations and findings. The term includes certain authorized representatives of the contracting officer acting within the limits of their authority as delegated by the contracting officer. "Termination contracting officer (TCO)" refers to a contracting officer who is settling terminated contracts. A single contracting officer may be responsible for duties in any or all of these areas. Reference in this regulation (48 CFR Chapter 1) to administrative contracting officer or termination contracting officer does not:

- 1) Require that a duty be performed at a particular office or activity; or
- 2) Restrict in any way a contracting officer in the performance of any duty properly assigned.
  - a) Access Roads: Access roads generally provide access from public roads to the border patrol roads and to TI not accessible from a border road. Access roads are typically one-lane roads with pullouts and turnarounds to accommodate two-way traffic. The width of the access roads shall be 12 feet for one-lane roads but shall widen to 16 feet at curves and points of short sight distance. Access road width and pullout placement shall be designed to allow safe passing of two vehicles at the same time. The maximum

- width of access roads shall be 16 feet. Access roads are typically constructed of graded aggregate or native materials.
- b) Border Lighting: Border lights typically consist of LED (Light-Emitting Diode) fixtures mounted on poles to illuminate areas along and in proximity to the border to facilitate Border Patrol enforcement activities.
- c) Contractor. The term Contractor as used herein refers to both the prime Contractors and any of their subcontractors. The Contractor shall ensure that subcontractors comply with the provisions of this contract.
- d) Contracting Officer Representative. Person(s) designated by the Contracting Officer to be the authorized Government representative in charge of the project.
- e) Contractor Representative. A supervisor, superintendent, or manager assigned in accordance with the clause entitled SUPERINTENDENCE BY THE CONTRACTOR.
- f) Drainage Structures: Required to accommodate surface run-off and concentrated conveyance of storm water in a manner that keeps the border accessible to CBP during precipitation events.
- g) Fiber Optics Cable: Fiber optics cabling is typically installed in proximity to wall or fence and is used by CBP to facilitate telecommunications. CBP's OIT is responsible for providing and installing any electronics associated with the fiber optics cable.
- h) Gates: Gates in fencing and walls are needed to access International Boundary & Water Commission (IBWC) border monuments; accommodate large quantities of concentrated storm water run-off; and accommodate passage of authorized vehicles and personnel. The gates are manually operated with the exception of vehicle gates, which can be mechanized and automated if required.
- i) Patrol Roads: Border patrol roads are generally oriented parallel with the border and are used for direct enforcement of the border. Border roads are typically 20 feet wide and are posted for 25 miles per hour travel. These roads shall be designed to allow safe passing of two vehicles at the same time. The roads are constructed of asphalt, concrete or graded aggregate depending on the topography and geotechnical conditions.
- j) Quality Assurance (QA). A method used by the CBP to provide some measures of control over the quality of purchased goods and/or services received.
- k) Quality Control (QC). A method used by the Contractor to control quality of goods and/or services produced.
- 1) Scope of Work. Refers to a specific job which shall be ordered by an individual task order.
- m) Tactical Infrastructure (TI): TI are physical components designed to assist the Border Patrol in securing the border. These components include but are not limited to wall, fence, roads, gates, bridges, lights, boat ramps, and grates. TI facilitates deterrents and

acts as an impediment that slows, delays, contains and serves an obstacle to illicit cross-border activities.

- n) Task Order. "Task order" means an order for services placed against an established contract or with Government sources.
- o) Telecommunications Towers: Towers ranging from 80 feet to several hundred feet used by CBP to provide tactical communications for Border Patrol command and control and safety. Towers shall include a shelter for equipment as well as a power supply, in some cases requiring solar power where electrical service is not available.
- p) Wall: An 18-30 ft. tall barrier designed to prevent illegal entry and drug

#### ARTICLE C.6 – SCOPE OF WORK – DESIGN-BUILD PLANNING SERVICES

For Design-Build requirements, the Contractor shall provide Architectural and Engineering (A-E) planning services. A/E services that are not part of a design-build requirement are not allowed under this contract. The Contractor is required to provide detailed surveying, site layout work, shop drawings, drawings and sketches, drawings detail expansion, engineering calculations, and other related work as required to properly prepare and accomplish all design-build work. The Design-Build Contractor shall be responsible for the coordination of design, engineering and construction disciplines in order to fulfill the requirements of this contract and to provide for a complete, integrated and functional design. All below grade utility crossings or other above or below grade interferences shall be coordinated, with any conflicts resolved, by the Contractor prior to start of construction. Construction documents shall be sufficient to afford a clear understanding of the construction work required. The work shall be organized in a manner that shall assure thorough coordination between the various details on the drawings and between the drawings and the specifications. The Contractor shall cross-check all work and certify that all conflicts have been reconciled. These guidelines establish the minimum level of quality and CBPspecific requirements for all design and construction projects at CBP. The minimum requirements in this document, as modified by project-specific variances, shall be thoroughly coordinated and reflected in the drawings and specifications. The Contractor shall also comply with the latest edition of all applicable national building codes and regulations. The degree of work shall vary depending on the complexity of individual projects. Project record drawings are not considered A-E planning services. Record drawings shall be provided upon the completion of every task order.

Computer-Aided Drafting and Design. Drawings shall be prepared using the latest AutoCAD release. The drawing submission shall include hard copy and electronic documents. Quantity, size and format to be specified in task order.

Plans and Specifications. The A-E shall develop project-specific plans and specifications. The A-E shall develop the new specification using the latest version of the AIA (American Institute of Architects) Master specs as the baseline. Provide hardcopy and electronic version in Microsoft Word. Quantity, size and format (including pdf) to be specified, as applicable, in each task order.

#### ARTICLE C.7 – SCOPE OF WORK – CONSTRUCTION SERVICES

Specifications shall be provided to the Contractor and shall be utilized under this contract, unless otherwise directed by the Contracting Officer.

The Contractor shall be responsible for, but not limited to, the following services:

- 1) Construction services. Construction services shall be provided in response to individual task orders. The work described herein extends beyond the conventional, single project construction concept in that it may involve the planning, scheduling, coordination, procuring, and installation of a fluctuating series of related tasks.
- 2) Work and Services. The work to be performed under this contract shall include furnishing all labor, materials, supervision, coordination, miscellaneous equipment and materials required for full and complete execution of the work as defined herein and the attached standard details.
- 3) The Contractor shall perform all management, supervision, and other administrative activities necessary to assure performance in strict compliance with the terms and conditions of this contract.
- 4) The Contractor shall provide all labor, materials, equipment, supplies, permits, fees, and consultant services required to construct and install the border wall and associated tactical infrastructure including but not necessarily limited to access roads, patrol roads, fiber optics cable, drainage structures, border lighting, and tactical communication towers.
- 5) The Contractor shall be responsible for the professional quality, code compliance, technical accuracy and coordination of all designs, drawings, specifications and other documents or publications upon which the construction is based.
- 6) All survey performed by the Contractor, including but not limited to construction staking, topographic survey, and as-built drawings, during the design and construction shall be performed under the direction of a licensed professional Surveyor.
- 7) All construction required of the Contractor to complete the construction of the prototype and resulting task orders (if any), as well as any associated tactical infrastructure shall be in accordance with the criteria contained herein using industry standard materials and efficient practices. The Contractor shall buy materials and equipment accepted within the construction industry. The materials selected shall be of high quality, durable and easily maintained.
- 8) Beginning on the date of Notice to Proceed (NTP) on this contract, the Contractor shall be continuously available to Custom and Border Protections' representatives for response to requests for information, discussion of contract performance, and other contract administration activities such as billing or payment, etc.
- 9) The Contractor shall be responsible for the coordination of all Sub-Contractors required to complete construction.
- 10) The Contractor shall adhere to all construction related Best Management Practices (BMP) identified by CBP in each Task Order Award. BMPs outline the Government's requirements for meeting all environmental considerations in the construction area. The Contractor shall be required to participate in CBP provided BMP awareness training at the kickoff of the project. CBP shall conduct routine monitoring of BMP implementation during construction activities. The Contractor shall be required to immediately correct any non-compliant BMP upon notification by CBP.

- 11) Neither the Contractor, nor the Contractor's representatives, shall release any report, data, specification, photograph, cost estimate, nor other information in any form obtained or prepared under this contract without prior written approval of the Contracting Officer.
- 12) Upon completion of construction the Contractor shall submit Final As-Built Drawings and Specifications. Other construction records, including requests for information (RFI) and QA/QC documents, shall be submitted in Adobe Acrobat PDF format.
- 13) Record Documents. During the progress of the job, the Contractor shall keep a careful record at the job site of all changes and corrections from the layouts shown on the drawings. The Contractor shall enter such changes and corrections on contract record drawings and shall indicate, in addition to all changes and corrections, the actual location of all sub-surface utility lines. In order that the location of the lines and appurtenances may be determined in the event the surface openings or indicators become covered over or obscured, the record drawings shall show, by offset dimensions to two permanently fixed surface fixtures, the end of each run, and each change in direction. Valve, splice boxes, and similar appurtenances shall be located by dimensioning along the utility run from a reference point. The average depth below the surface of each run shall also be recorded. At the time of final acceptance of each structure or facility involved under the contract, the Contractor shall submit to the Contracting Officer record documents.
- 14) Record of Materials. The Contractor is required to furnish a record of materials used in the construction upon completion of each task order. Submission of this data is a condition for final payment. Where several manufacturers 'brands, types, or classes of the item listed have been used in the project, the specific areas where each item was used shall be designated. Designation shall key to the areas and spaces depicted on the record drawings.
- 15) Contractor's Management and Supervision. The Contractor shall provide and maintain a professional staff for the management and supervision of all task orders. The Contractor shall obtain any other services deemed necessary for effective execution of task orders.

### ARTICLE C.8 - DESIGN AND CONSTRUCTION SCHEDULE

Within seven (7) calendar days of receipt of any task order award (including the prototype task order), the Contractor shall submit a proposed design and/or construction schedule for review and approval by the Contracting Officer's Representative. The schedule shall be approved in writing by the Contracting Officer's Representative before any work is started. The schedule shall be prepared in Critical Path Method (CPM) – program based format following the outline of the component divisions and subsections of the project specifications. The schedule shall be prepared in Primavera (or equivalent scheduling software) in sufficient size and detail to clearly indicate:

The schedule shall include the proposed sequence of design and construction including required phasing of the work the design and construction submissions (e.g. design submissions, shop drawings, samples, and other submittal information). This should include projected submittal approval dates (allow ten (10) working days for review) and material delivery dates. Contractor shall provide Work Breakdown Schedule (WBS) for approval which shall include the activity identification system for labeling all work activities. Costs assigned to all activities shall equal the contract value, including material and equipment.

The Project Schedule shall include time scaled network diagrams; computer generated mathematical analysis reports, and associated reports as required by this Specification section. The mathematical analysis reports shall include, at a minimum, the following information:

- 1) Activity number(s) and descriptions;
- 2) All WBS codes;
- 3) Original and remaining durations for each activity;
- 4) Early start by calendar date;
- 5) Early finish by calendar date;
- 6) Late start by calendar date;
- 7) Late finish by calendar date:
- 8) Actual start by calendar date;
- 9) Actual finish by calendar date
- 10) Total float in work days;
- 11) Monetary value of each activity;
- 12) Percentage of activity complete linked to remaining duration;
- 13) Contractors earnings, based on the Contractors reported portion of activities completed and accepted; and
- 14) Imposed constraints.

All requirements shall be specified on a task order basis.

## ARTICLE C.9 - CONTRACTOR QUALITY CONTROL (CQC) PROGRAM

A general description of the CQC Program shall be available for CBP review during the pre-award survey. Two copies of the complete CQC Program shall be provided to the Contracting Officer for review and approval within thirty (30) calendar days after award of the master contract and as changes are made thereafter. The program shall include:

- 1) A quality control inspection system covering all contract services. It must specify areas to be inspected on both a scheduled or unscheduled basis and how inspections are to be conducted.
- 2) The name(s) and qualifications of the individual(s) tasked to perform the quality control inspections, and the extent of their authority.
- 3) A method for identifying deficiencies in the quality of services performed and taking corrective action before the level of performance becomes mandatory.

A file of all Quality Control Inspections, Inspection results, and any corrective action required, shall be maintained by the Contractors throughout the term of this contract. This file shall be the property of the CBP and shall be made available to the Contracting Officer within one hour of request. The file shall be turned over to the Contracting Officer within five days after completion/termination of the task order and prior to final payment.

#### ARTICLE C.10 KEY PERSONNEL

The Contractor shall provide key personnel as defined below.

## Construction Superintendent:

Coordinates and oversees completion of the construction of the project. Manages the site for the Contractor and serves as field point of contact for the construction effort. Provides construction reports as per this statement of work. Coordinates scheduling of site activities with Government Project Manager and site representatives. The credentials of the proposed Construction Superintendant(s) will be reviewed to ensure they have at least ten (10) years of experience on construction projects. Provides list of employees in time to complete vetting and ensures only vetted personnel are on job site.

## Project Manager:

Coordinate and oversee completion of activities in all phases of the project. Manages the entire project and serves as the main contact for the government for the project design and construction effort. Integrates and coordinates the project with design and field personnel. Ensures site personnel work with Government project team for scheduling of deliveries and construction activities. The credentials of the proposed Project Manager will be reviewed to ensure they have a technical degree and/or equivalent experience, and at least five (5) years of experience on construction projects. The credentials of the proposed Project Manager will be reviewed to ensure they have a bachelor's degree in engineering or related technical field or business/management. Additionally, a minimum of 5 years post-graduate experience managing and supervising construction projects is required.

## Lead Designer:

Serves as design lead for project. Primary design contact to Government to provide all information requested to satisfy design requirements. Must be a licensed professional engineer. Ensures design meets or exceeds all Government requirements. The credentials of the proposed Lead Designer will be reviewed to ensure they are a registered professional engineer and/or licensed Architect. Professional Registration and/or Licensing is required in California. Texas, New Mexico, and Arizona are preferred as well.

#### **ARTICLE C.11 SECURITY**

It shall be the Contractor's responsibility to furnish their own security for personnel and to safeguard their equipment during the entire project lifecycle. This shall include, but not be limited to, the actual project sites and/or staging areas and storage facilities. The contractor shall install temporary chain link fencing with barbed wire to deter vandalism to the structures when no work is taking place. The Customs and Border Protection shall not provide security for the Contractor.

In the case of an incident along the border, Border Patrol agents shall respond to routine security matters/threats if and when they occur. A call in number shall be provided for the USBP to be used in emergency situations.

As part of the security requirement, the Contractor shall be responsible for the development of a Security Plan in conjunction with the Health and Safety Plan. The detailed Security Plan shall include details such as, but not limited to; "fall back positions", evacuation routines and methods, muster area, medical staff members/availability, number of security personnel, qualifications, years of experience, etc. in the event of a hostile attack. This plan shall be reviewed by Contracting Officer's Representative for inspection and final acceptance prior to construction activities. The Contractor shall bring three copies of the security plan to the pre-construction conference.

Additional Security requirements may be required in future task orders.

The Contractor shall be responsible for submitting a list of all personnel required at the jobsites for verification by CBP prior to conducting activities. Activities include, but are not limited to; site investigations, surveys, and construction. No employee shall be allowed on site until screened and checked for criminal history and proper immigration status. Any personnel having questionable history/backgrounds shall be rejected and not authorized to enter the jobsite. This list marked "CONFIDENTIAL" shall be submitted to the Contracting Officer for forwarding to Border Patrol personnel.

To facilitate the screening and checking of each employee entering in or working on Federal property, the General Contractor shall submit:

- The individual's full name
- Company Name
- Date of Birth (DOB)
- Social Security Number
- Driver's Licenses and/or State Identification Number
- Place of Birth (POB)

After submission of requirements stated above, the Contractor shall proceed with all work unless further notified by the Government.

Employee Identification Badges: Contractor personnel shall wear visible Contractor- furnished employee identification badges while physically on the construction site. Each badge shall include, as a minimum, the company name, employee name, photograph, Contract Title, Contract Number, and the expiration date of the badge.

D) Reporting of New and Departing Employees

The Contractor shall notify the Contract Officer Representative (COR) and Contracting Officer within five business days of staffing changes for positions that require suitability determinations as follows:

- i. New Employees: Provide the name, position title, e-mail address, and phone number of the new employee. Provide the name, position title and suitability level held by the former incumbent. If the employee is filling a new position, provide a description of the position and the Government shall determine the appropriate security level.
- ii. Departing Employees: 1) Provide the name, position title, and security clearance level held by or pending for the individual; and 2) Perform and document the actions identified in the "Employee Separation Checklist" when a Contractor/Subcontractor employee terminates work under this contract. All documentation shall be made available to the COTR and/or Contracting Officer upon request.

## **C.11.1 Prototype Site Security**

The Contractor shall ensure all personnel employed on the Activity become familiar with and obey Activity regulations including safety, fire, traffic and security regulations. Keep within the limits of the work and avenues of ingress and egress. Ingress and egress of Contractor vehicles at the Activity is limited to the Contractor's gate. Wear hard hats in designated areas. Do not enter any restricted areas unless required to do so and until cleared for such entry. The Contractor's equipment shall be conspicuously marked for identification.

#### **ARTICLE C.12 REPORTING REQUIREMENTS**

### 1) TECHNICAL PROGRESS REPORTS

In addition to the required reports set forth elsewhere in this Schedule, the preparation and submission of regularly recurring Technical Progress Reports shall be required in any contract resulting from this solicitation. These reports shall require descriptive information about the activities under taken during

the reporting period and shall require information about planned activities for future reporting periods. The frequency and specific content of these reports shall be determined prior to contract award for monitoring of the overall IDIQ contract and on a task order basis for each awarded task basis.

For proposal preparation purposes only, it is estimated that in addition to the required electronic version(s) 5 hard copies of these reports shall be required as follows:

[X] Weekly
[ ] Quarterly
[] Semi-Annually
[ ] Annually
[ ] Annually (with a requirement for a Draft Annual Report)
[X] Final - Upon final completion of each task order
[X] Final - Upon final completion of the contract (with a requirement for a Draft Final
Report)

### 2) OTHER REPORTS/DELIVERABLES

All required reports and deliverables shall be specified in each task order issued by the Government.

## **ARTICLE C.13 SPECIAL CONSIDERATIONS**

Neither the Contractor nor any subcontractor or representative thereof shall release or publish any sketch, photograph, report or other material of any nature derived or prepared under any resulting task order without specific written permission of the Contracting Officer except as specifically provided in the SOW.

Copyright shall not be claimed by the Contractor for any materials produced under any resulting task order. All such materials are to remain within the public domain.

The Contractor and those in its employ may not, during the term of the agreement, present reports of research from this project to various professional societies and publications. Abstracts and copies of these reports, presentations, or articles utilizing work sponsored by any resulting task order shall be provided to the Contracting Officer (CO) for approval prior to publication or presentation.

In the event the Contractor encounters problems in fulfilling performance requirements, or when difficulties are anticipated in complying with any task order schedule or dates, or whenever the Contractor has knowledge a potential situation is delaying or threatening to delay timely performance of tasks, the Contractor shall immediately notify the Government Representative by phone and in writing noting all relevant details.

The Government requires unlimited rights in any material first produced in the performance of this Contract, in accordance with the FAR clause at 52.227-17. In addition, for any material first produced in the performance of this contract, the materials may be shared with other agencies or contractors during the period of performance of any resulting task order, or after its termination. For any subcontractors or teaming partners, the Contractor shall ensure at proposal submission that the

subcontractors and /or teaming partners are willing to provide the data rights required under any resulting task order.

# END OF STATEMENT OF WORK

Phase 2

Sector Phase 1 Phase 2 New Replacement Phase 3

**BBT** - Big Bend

Primary PF
Primary VF
Secondary PF
Replacement PF
VF to PF
Total

**BLW** - Blaine

Primary PF Primary VF Secondary PF Replacement PF VF to PF

Total

**DRT - Del Rio** 

Primary PF
Primary VF
Secondary PF
Replacement PF
VF to PF
Total

**ELC - El Centro** 

Primary PF
Primary VF
Secondary PF
Replacement PF
VF to PF
Total

**EPT - El Paso** 

Primary PF
Primary VF
Secondary PF
Replacement PF
VF to PF
Total

**HVM** - Havre

Primary PF Primary VF Secondary PF Replacement PF

VF to PF

**Total** 

**HLT** - Houlton

Primary PF Primary VF Secondary PF Replacement PF

VF to PF **Total** 

LRT - Laredo

Primary PF Primary VF Secondary PF Replacement PF

VF to PF **Total** 

**RGV - Rio Grande Valley** 

Primary PF
Primary VF
Secondary PF
Replacement PF
VF to PF
Total

SDC - San Diego

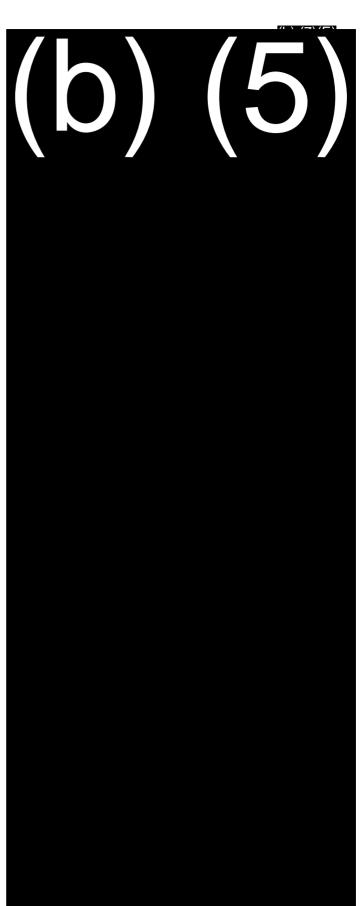
Primary PF
Primary VF
Secondary PF
Replacement PF
VF to PF
Total

SPW - Spokane

Primary PF
Primary VF
Secondary PF
Replacement PF
VF to PF
Total

**SWB** - Swanton

Primary PF Primary VF



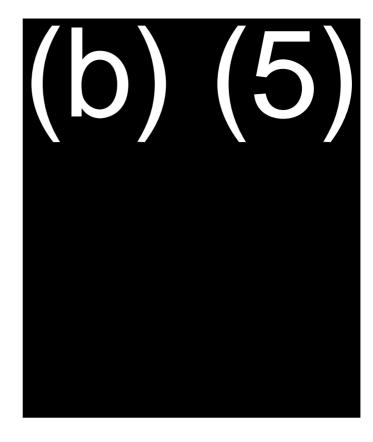
Secondary PF Replacement PF VF to PF **Total** 

## TCA - Tuscon

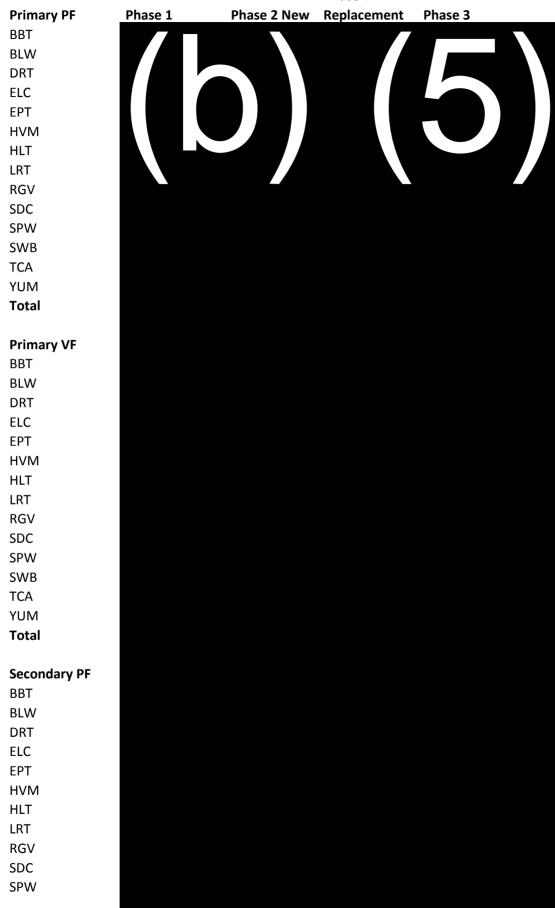
Primary PF
Primary VF
Secondary PF
Replacement PF
VF to PF
Total

## YUM - Yuma

Primary PF
Primary VF
Secondary PF
Replacement PF
VF to PF
Total



Phase 2



SWB TCA YUM **Total** 

# **Replacement PF**

BBT

BLW

DRT

ELC

LLC

EPT

HVM

HLT

LRT

RGV

SDC SPW

SWB

3000

TCA YUM

Total

## VF to PF

BBT

BLW

DRT

ELC

EPT

HVM

HLT

LRT

RGV

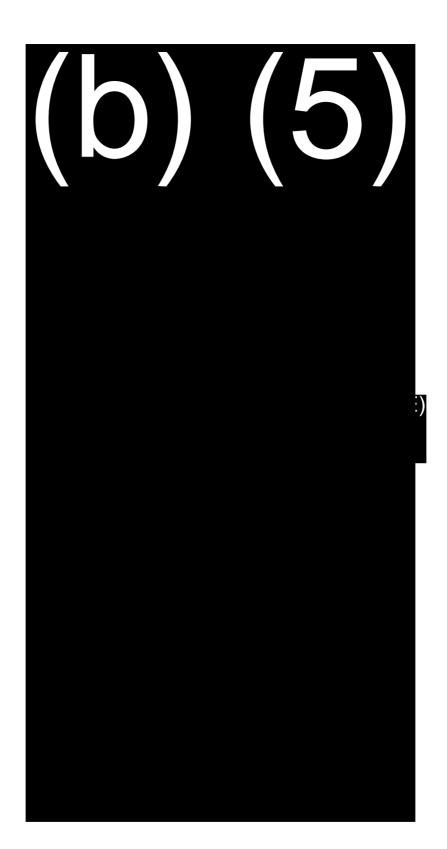
SDC

SPW SWB

TCA

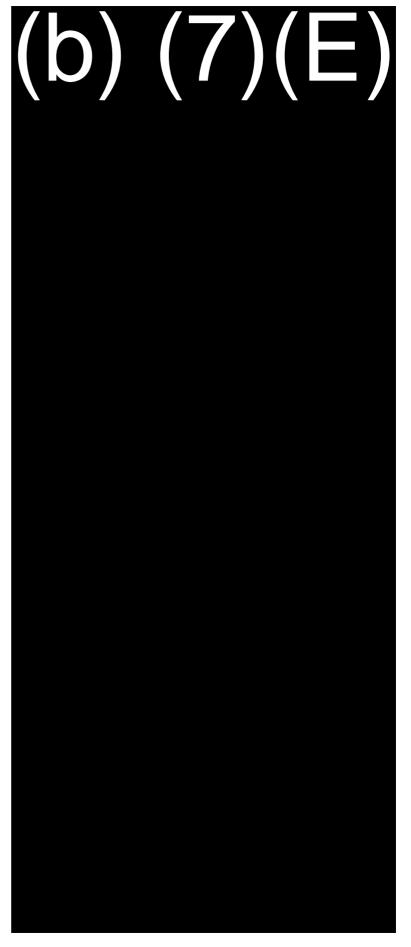
YUM

Total



Sector	Fence_ID	Length_Miles	Lat Start	Long Start Lat	End l	Long End
BBT	BBT-01					
BBT	BBT-02					
BLW	BLW-01					
BLW	BLW-02					
BLW	BLW-03					
DRT	DRT-01					
DRT	DRT-02					
DRT	DRT-03					
DRT	DRT-04					
DRT	DRT-04A					
DRT	DRT-05					
ELC	ELC-01					
ELC	ELC-02					
ELC	ELC-03					
ELC	ELC-04					
ELC	ELC-05					
ELC	ELC-06					
ELC	ELC-07					
EPT	EPT-01					
EPT	EPT-02					
EPT	EPT-03					
EPT	EPT-04					
EPT	EPT-05					
EPT	EPT-06					
EPT	EPT-07					
EPT	EPT-08					
EPT	EPT-09					
EPT	EPT-10					
EPT	EPT-11					
EPT	EPT-12					
EPT	EPT-13					
EPT	EPT-14					
EPT	EPT-15					
EPT	EPT-16					
EPT	EPT-17					
EPT	EPT-18					
EPT	EPT-18A					
EPT	EPT-19					
EPT	EPT-20					
EPT	EPT-21					
EPT	EPT-22					
EPT	EPT-23					
EPT	EPT-24					
HLT	HLT-01					
HLT	HLT-02					
HLT	HLT-03					

HLT	HLT-04
HLT	HLT-05
HLT	HLT-06
HLT	HLT-07
HLT	HLT-08
HLT	HLT-09
HLT	HLT-10
HLT	HLT-11
HLT	HLT-12
HLT	HLT-13
HLT	HLT-14
HLT	HLT-15
HLT	HLT-16
HLT	HLT-17
HLT	HLT-18
HLT	HLT-19
HLT	HLT-20
HLT	HLT-21
HLT	HLT-22
HLT	HLT-23
HLT	HLT-24
HLT	HLT-25
HLT	HLT-26
HLT	HLT-27
HLT	HLT-28
HLT	HLT-29
HLT	HLT-30
HLT	HLT-31
HLT	HLT-32
HLT	HLT-33
HLT	HLT-34
HLT	HLT-35
HLT	HLT-36
HVM	HVM-01
HVM	HVM-02
HVM	HVM-03
HVM	HVM-04
HVM	HVM-05
HVM	HVM-06
HVM	HVM-07
HVM	HVM-08
HVM	HVM-09
HVM	HVM-10
HVM	HVM-11
HVM	HVM-12
HVM	HVM-13
HVM	HVM-14
	II A IAI . T.



HVM	HVM-15
HVM	HVM-16
HVM	HVM-17
HVM	HVM-18
HVM	HVM-19
HVM	HVM-20
HVM	HVM-21
HVM	HVM-22
HVM	HVM-23
HVM	HVM-24
HVM	HVM-25
HVM	HVM-26
HVM	HVM-27
HVM	HVM-28
HVM	HVM-29
HVM	HVM-30
HVM	HVM-31
HVM	HVM-32
HVM	HVM-33
HVM	HVM-34
HVM	HVM-35
HVM	HVM-36
HVM	HVM-37
HVM	HVM-38
HVM	HVM-39
HVM	HVM-40
HVM	HVM-41
HVM	HVM-41
HVM	HVM-43
HVM	HVM-44
LRT	LRT-01
LRT	LRT-02
LRT	LRT-03
LRT	LRT-04
LRT	LRT-05
LRT	LRT-06
LRT	LRT-07
LRT	LRT-08
LRT	LRT-09
LRT	LRT-10
LRT	LRT-11
LRT	LRT-11 LRT-12
LRT	LRT-13
LRT	LRT-14
LRT	LRT-15
LRT	LRT-16
LRT	LRT-17



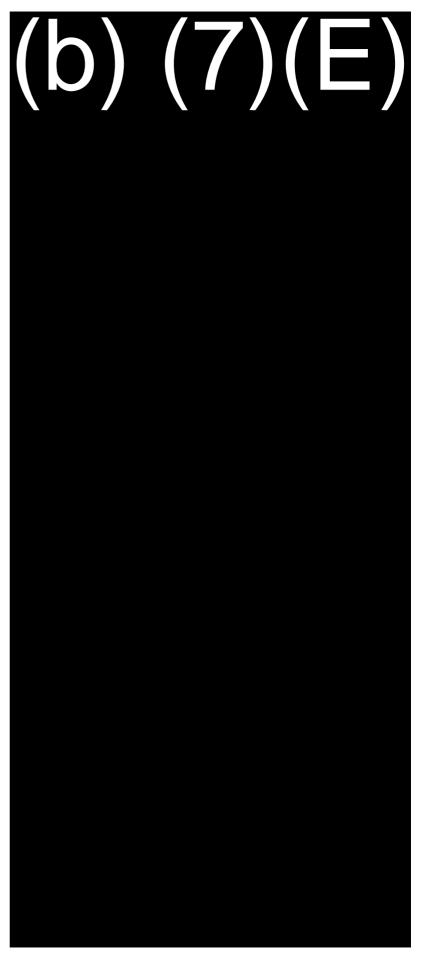
LRT	LRT-18
LRT	LRT-19
LRT	LRT-20
RGV	RGV-01
RGV	RGV-02
_	
RGV	RGV-03
RGV	RGV-04
RGV	RGV-05
RGV	RGV-06
RGV	RGV-07
RGV	RGV-08
RGV	RGV-09
_	
RGV	RGV-10
RGV	RGV-11
RGV	RGV-12
RGV	RGV-13
_	
RGV	RGV-14
RGV	RGV-15
RGV	RGV-16
	RGV-17
RGV	
RGV	RGV-18
RGV	RGV-19
RGV	RGV-20
_	
RGV	RGV-21
RGV	RGV-22
RGV	RGV-23
RGV	RGV-24
	_
RGV	RGV-25
RGV	RGV-26
RGV	RGV-27
RGV	RGV-28
RGV	RGV-29
RGV	RGV-30
SDC	SDC-01
SDC	SDC-02
SDC	SDC-03
SDC	SDC-04
SDC	SDC-05
SDC	SDC-06
SDC	SDC-07
SDC	SDC-08
SDC	SDC-08A
SDC	SDC-10
SDC	SDC-11
SDC	SDC-12
SDC	SDC-13
SDC	SDC-14



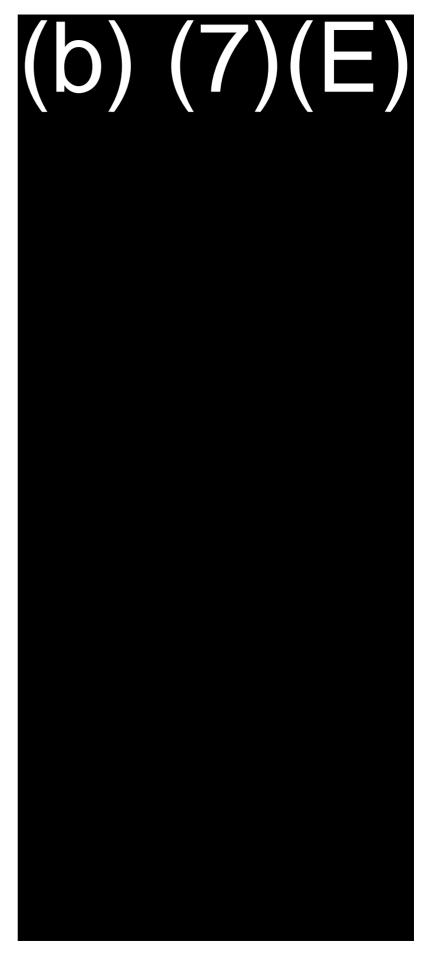
SDC	SDC-15
SDC	SDC-16
SDC	SDC-17
SDC	SDC-18
SDC	SDC-19
SDC	SDC-20
SDC	SDC-21
SDC	SDC-22
SDC	SDC-22A
SDC	SDC-23
SDC	SDC-24
SDC	SDC-25
SDC	SDC-26
SDC	SDC-27
SDC	SDC-28
SDC	SDC-29
SDC	SDC-30
SDC	SDC-31
SDC	SDC-32
SDC	SDC-33
SDC	SDC-34
SDC	SDC-35
SDC	SDC-36
SPW	SPW-01
SPW	SPW-02
SPW	SPW-03
SPW	SPW-04
SPW	SPW-05
_	
SPW	SPW-06
SPW	SPW-07
SPW	SPW-08
J. 11	
SPW	SPW-09
SPW	SPW-10
SPW	SPW-11
_	O
SPW	SPW-12
SPW	SPW-13
SPW	SPW-14
	_
SPW	SPW-15
SPW	SPW-16
	-
SPW	SPW-17
SPW	SPW-18
SPW	SPW-19
	_
SPW	SPW-20
SPW	SPW-21
SPW	SPW-22
	_
SPW	SPW-23
SPW	SPW-24
	J



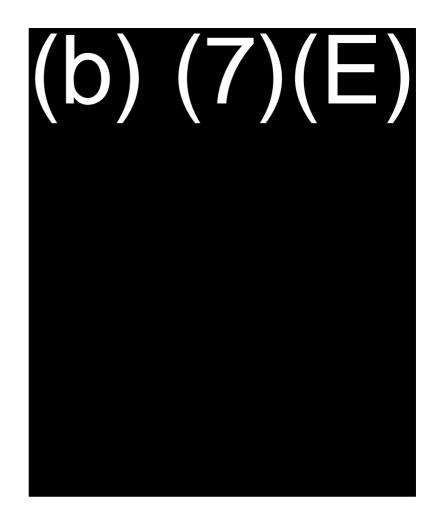
SPW	SPW-25
SPW	SPW-26
SPW	SPW-27
SPW	SPW-28
SPW	SPW-29
SPW	SPW-30
SPW	SPW-31
SPW	SPW-32
SPW	SPW-33
SPW	SPW-34
SPW	SPW-35
SPW	SPW-36
SPW	SPW-37
SPW	SPW-38
SPW	SPW-39
SWB	SWB-01
SWB	SWB-02
SWB	SWB-03
SWB	SWB-04
SWB	SWB-05
SWB	SWB-06
SWB	SWB-07
SWB	SWB-08
SWB	SWB-09
SWB	SWB-10
SWB	SWB-11
SWB	SWB-12
SWB	SWB-13
SWB	SWB-14
SWB	SWB-15
SWB	SWB-16
SWB	SWB-17
SWB	SWB-18
SWB	SWB-20
SWB	SWB-21
SWB	SWB-22
SWB	SWB-23
SWB	SWB-24
SWB	SWB-25
SWB	SWB-26
SWB	SWB-27
SWB	SWB-28
SWB	SWB-29
SWB	SWB-31
SWB	SWB-32
SWB	SWB-33
SWB	SWB-35



SWB	SWB-37
SWB	SWB-38
SWB	SWB-39
SWB	SWB-40
_	
SWB	SWB-41
TCA	TCA-01
TCA	TCA-02
TCA	TCA-02A
TCA	TCA-03
TCA	TCA-04
TCA	TCA-04a
TCA	TCA-04b
TCA	TCA-05
TCA	TCA-06
TCA	TCA-06A
TCA	TCA-06B
TCA	TCA-06C
TCA	TCA-06D
TCA	TCA-06E
TCA	TCA-06F
TCA	TCA-06G
TCA	TCA-06H
TCA	TCA-06I
TCA	TCA-06J
TCA	TCA-06K
TCA	TCA-07
TCA	TCA-07A
TCA	TCA-07B
TCA	TCA-08
TCA	TCA-09
TCA	TCA-09A
TCA	TCA-09B
TCA	TCA-09C
TCA	TCA-09D
TCA	TCA-10
TCA	TCA-11
_	_
TCA	TCA-12
TCA	TCA-13
TCA	TCA-14
TCA	TCA-15
TCA	TCA-16
TCA	TCA-17
TCA	TCA-18
TCA	TCA-18A
TCA	TCA-19
TCA	TCA-20
TCA	TCA-21



TCA-21a
TCA-22
TCA-23
TCA-23A
TCA-23B
TCA-24
TCA-24A
TCA-24B
TCA-25
TCA-26
TCA-27
YUM-01
YUM-02
YUM-03
YUM-04
YUM-05
YUM-06
YUM-07
YUM-08
YUM-09
YUM-10
YUM-11



Sum of Length_Miles	Column Labels		
Row Labels	Phase 1 Phase	2 New Phase 2 Replacem	ent Phase 3 Grand Total
ВВТ	0.00	(b) (7)(E)	<b>ト) /フ)/</b> に)
Primary PF	0.00		b) (7)(E)
BLW	0.00		
Primary PF	0.00		
DRT	0.00		
Primary PF	0.00		
ELC	0.00		
Primary PF	0.00		
Secondary PF	0.00		
Replacement PF	0.00		
VF to PF	0.00		
EPT	(b) (7)(E)		
Primary PF	(b) (7)(E)		
Secondary PF	0.00		
Replacement PF	0.00		
VF to PF	0.00		
HVM	0.00		
Primary PF	0.00		
Primary VF	0.00		
HLT	0.00		
Primary VF	0.00		
LRT	0.00		
Primary PF	0.00		
Secondary PF	0.00		
RGV	0.00		
Primary PF	0.00 (b) (7)(E)		
SDC	(b) (7)(E)_		
Primary PF			
Secondary PF	0.00		
Replacement PF	0.00		
SPW	0.00		
Primary PF	0.00		
Primary VF	0.00		
Secondary PF	0.00		
SWB	0.00		
Primary PF	0.00		
Primary VF	0.00		
TCA	0.00		
Primary PF	0.00		
Secondary PF	0.00		
Replacement PF	0.00		
VF to PF	0.00		
YUM	0.00		

Secondary PF Replacement PF VF to PF

**Grand Total** 

(b) (7)(E)

Sum of Length_Miles Row Labels	Column Label	s Phase 2 New	Phase 2 Replacement	Phase 3
BBT	Filase 1	Pilase 2 New	Phase 2 Replacement	Pilase 5
Primary PF				
BLW				
Primary PF			( / )(	
DRT				
Primary PF				
ELC				
Primary PF				
Secondary PF				
Replacement PF				
VF to PF				
EPT				
Primary PF				
Secondary PF				
Replacement PF				
VF to PF				
HVM				
Primary PF				
Primary VF				
HLT				
Primary VF				
LRT				
Primary PF				
Secondary PF				
RGV				
Primary PF				
SDC				
Primary PF				
Secondary PF				
Replacement PF				
SPW				
Primary PF				
Primary VF				
Secondary PF				
SWB				
Primary PF				
Primary VF				
TCA Drimany DE				
Primary PF				
Secondary PF				
Replacement PF VF to PF				
YE TO PE				
TUIVI				

Secondary PF Replacement PF VF to PF

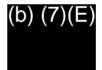
**Grand Total** 





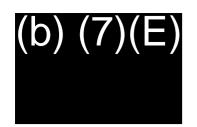
Sum of Length_Miles Row Labels	Column Labels Primary PF	Primary VF	Secondary PF
BBT	7.1	\ /-	
BLW			$\mathcal{M} \vdash \mathcal{M}$
DRT			)( 匚 )
ELC		/ \ '	
EPT			
HLT			
HVM			
LRT			
RGV			
SDC			
SPW			
SWB			
TCA			
YUM			
<b>Grand Total</b>			

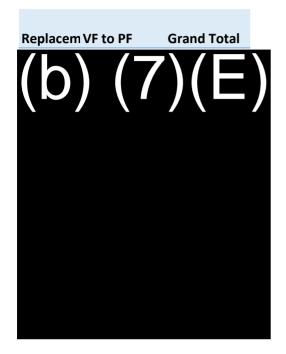
C++ new C++ replc

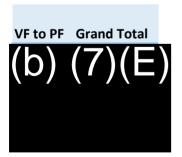


Sector (Multiple Items)

Sum of Length_Miles	Column Labels		
Row Labels	Primary PF	Replacement Pl	F Secondary PF
Phase 1	7	\ /-	7\/
Phase 2 New		)	
Phase 2 Replacement		$JI \setminus I$	$A \land L A$
Phase 3			
<b>Grand Total</b>			







Constrained_Cat	Sector	Fence_ID	Project_ID	Fence_Program	Length_Miles
Unconstrained/C++	RGV	RGV-12		PF Primary	(b) (7)(E)
Constrained (C)/OMB/C+	SDC	SDC-01		PF Replacement	(3) (1)(-)
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	ELC	ELC-06		PF Secondary	
Unconstrained/C++	TCA	TCA-06H		VF to PF	
C+	TCA	TCA-16	TCA-B	Unconst. PF	
C+	SDC	SDC-10		PF Secondary	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-14	SDC-B	PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	HLT	HLT-21		VF Primary	
C+	TCA	TCA-20	TCA-C	Unconst. PF	
C+	RGV	RGV-26		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	ELC	ELC-04		PF Secondary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HVM	HVM-44		VF Primary	
C+	RGV	RGV-22		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Constrained (C)/OMB/C+	TCA	TCA-04		PF Replacement	
OMB/C+	ELC	ELC-02		VF to PF	
Unconstrained/C++	RGV	RGV-01		PF Primary	
C+	SDC	SDC-35		PF Secondary	
Unconstrained/C++	RGV	RGV-10		•	
Unconstrained/C++	HVM	HVM-01		PF Primary PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	LRT	LRT-08			
	DRT			PF Secondary	
Unconstrained/C++		DRT-02		PF Primary	
Unconstrained/C++	SPW	SPW-05		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-25		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Unconstrained/C++	HLT	HLT-35		VF Primary	
C+	EPT	EPT-24		PF Primary	
OMB/C+	EPT	EPT-17		VF to PF	
Unconstrained/C++	RGV	RGV-07		PF Primary	
Unconstrained/C++	HLT	HLT-09		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	SPW	SPW-32		VF Primary	
C+	EPT	EPT-24		PF Primary	
C+	EPT	EPT-19		PF Secondary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HVM	HVM-32		VF Primary	

Unconstrained/C++	EPT	EPT-23		Unconst. PF	(b) $(7)(E)$
Constrained (C)/OMB/C+	SDC	SDC-07		PF Replacement	(5) (1)(5
OMB/C+	EPT	EPT-06		VF to PF	
Unconstrained/C++	SWB	SWB-12		VF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	SWB	SWB-09		VF Primary	
C+	EPT	EPT-22		PF Secondary	
Unconstrained/C++	RGV	RGV-09		PF Primary	
OMB/C+	EPT	EPT-02		VF to PF	
C+	ELC	ELC-04		PF Secondary	
C+	SDC	SDC-35		PF Secondary	
C+	EPT	EPT-21		PF Secondary	
C+	RGV	RGV-22		PF Primary	
C+	RGV	RGV-20		PF Primary	
Unconstrained/C++	DRT	DRT-04		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-02		PF Replacement	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Constrained (C)/OMB/C+	YUM	YUM-04			
	EPT	EPT-19		PF Replacement	
C+	DRT	DRT-03		PF Secondary	
Unconstrained/C++			CDC D	PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-29	SDC-D	PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	HVM	HVM-06		PF Primary	
C+	RGV	RGV-26		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	LRT	LRT-04		PF Secondary	
Unconstrained/C++	SPW	SPW-21		VF Primary	
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	
OMB/C+	TCA	TCA-07B		PF Primary	
OMB/C+	EPT	EPT-17		VF to PF	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	EPT	EPT-08		PF Primary	
Unconstrained/C++	RGV	RGV-07		PF Primary	
Unconstrained/C++	RGV	RGV-11		PF Primary	
Unconstrained/C++	HVM	HVM-20		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-26		PF Primary	
C+	RGV	RGV-17		PF Primary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Unconstrained/C++	SPW	SPW-25		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	ELC	ELC-04		PF Secondary	
C+	TCA	TCA-03		VF to PF	
C+	EPT	EPT-19		PF Secondary	
C+	TCA	TCA-08	TCA-A	VF to PF	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	HLT	HLT-29		VF Primary	
, -		-		•	

					(b) (7)(E)
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Constrained (C)/OMB/C+	SDC	SDC-02		PF Replacement	
C+	EPT	EPT-24		PF Primary	
C+	EPT	EPT-19		PF Secondary	
C+	RGV	RGV-15		PF Primary	
Unconstrained/C++	SPW	SPW-03		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	YUM	YUM-01		PF Secondary	
Constrained (C)/OMB/C+	SDC	SDC-19	SDC-B	PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	TCA	TCA-19	TCA-C	VF to PF	
C+	RGV	RGV-26		PF Primary	
C+	LRT	LRT-01		PF Primary	
Unconstrained/C++	RGV	RGV-10		PF Primary	
OMB/C+	EPT	EPT-14		VF to PF	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-22		PF Primary	
C+	RGV	RGV-21		PF Primary	
Unconstrained/C++	DRT	DRT-02		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-04	SDC-A	PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-06		PF Primary	
Unconstrained/C++	HLT	HLT-01		VF Primary	
C+	SPW	SPW-09		PF Secondary	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HVM	HVM-25		PF Primary	
C+	RGV	RGV-23		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	HLT	HLT-16		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Unconstrained/C++	HVM	HVM-39		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-22		PF Primary	
C+				•	
	RGV	RGV-19		PF Primary	
Constrained (C)/OMB/C+ C+	ELC EPT	ELC-07 EPT-21		PF Replacement	
				PF Secondary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Unconstrained/C++	SWB	SWB-20		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-01		PF Primary	
OMB/C+	YUM	YUM-05		PF Replacement	
Constrained (C)/OMB/C+	EPT	EPT-20		PF Replacement	
OMB/C+	EPT	EPT-04		VF to PF	

C+ C+ C+	EPT LRT	EPT-24 LRT-06		PF Primary	(D)
C+	LRT	LDT 06		•	
		LN 1-00		PF Secondary	
	RGV	RGV-18		PF Primary	
Unconstrained/C++	HVM	HVM-13		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	TCA	TCA-23A		VF to PF	
Constrained (C)/OMB/C+	SDC	SDC-03		PF Replacement	
Unconstrained/C++	EPT	EPT-07		PF Primary	
Unconstrained/C++	SPW	SPW-19		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-34	SDC-E	PF Primary	
Unconstrained/C++	EPT	EPT-11		PF Primary	
C+	EPT	EPT-24		PF Primary	
OMB/C+	RGV	RGV-01	RGV-A	PF Primary	
C+	RGV	RGV-26		PF Primary	
C+	EPT	EPT-19		PF Secondary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HVM	HVM-27		PF Primary	
Unconstrained/C++	DRT	DRT-02		PF Primary	
Unconstrained/C++	SDC	SDC-05		PF Primary	
OMB/C+	EPT	EPT-17		VF to PF	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	SWB	SWB-06		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
C+	TCA	TCA-18	TCA-B	Unconst. PF	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-22		PF Primary	
C+	RGV	RGV-17		PF Primary	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-02		PF Replacement	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	SDC	SDC-35		PF Secondary	
C+	EPT	EPT-21		PF Secondary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-25	SDC-C	PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	LRT	LRT-07		PF Primary	
C+	RGV	RGV-26		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-15		PF Primary	
C+	RGV	RGV-19		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	
OMB/C+	TCA	TCA-09A		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-03		PF Replacement	
OMB/C+	EPT	EPT-17		VF to PF	
- ··-, -	YUM	YUM-03		PF Replacement	

Constrained (C)/OMB/C+	EPT	EPT-20		DE Panlacament	/b) /7\/E\
C+	TCA	TCA-02A		PF Replacement VF to PF	$(D) (I)(\Box)$
Unconstrained/C++	RGV	RGV-11		PF Primary	
Unconstrained/C++	HVM	HVM-15		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
OMB/C+	RGV	RGV-02	RGV-A	PF Primary	
C+	RGV	RGV-02 RGV-26	NGV-A	PF Primary	
Unconstrained/C++	RGV	RGV-20 RGV-13		PF Primary	
C+	ELC	ELC-05		PF Secondary	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Unconstrained/C++	SPW	SPW-13		VF Primary	
C+	EPT	EPT-24		PF Primary	
C+	SDC	SDC-11		PF Secondary	
C+	TCA	TCA-16	TCA-B	Unconst. PF	
C+	ELC	ELC-04		PF Secondary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
OMB/C+	EPT	EPT-12		VF to PF	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	HLT	HLT-23		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-01		PF Replacement	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-15		PF Primary	
Unconstrained/C++	SPW	SPW-06		PF Primary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-14	SDC-B	PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	SWB	SWB-29		VF Primary	
Unconstrained/C++	ELC	ELC-01		PF Primary	
C+	TCA	TCA-19	TCA-C	Unconst. PF	
C+	RGV	RGV-26		PF Primary	
C+	LRT	LRT-05		PF Primary	
Unconstrained/C++	RGV	RGV-10		PF Primary	
Unconstrained/C++	EPT	EPT-05		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-22		PF Primary	
Unconstrained/C++	RGV	RGV-29		PF Primary	
Unconstrained/C++	DRT	DRT-02		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-03		PF Replacement	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	YUM	YUM-07		VF to PF	
Unconstrained/C++	RGV	RGV-01		PF Primary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-16		PF Primary	

C+	EPT	EPT-19		PF Secondary	(h) (7)(E)
OMB/C+	RGV	RGV-08	RGV-C	PF Primary	(b) (1)(E)
C+	EPT	EPT-24	KGV-C	PF Primary PF Primary	
C+	TCA	TCA-13	TCA A	*	
	ELC	ELC-03	TCA-A	PF Primary	
Constrained (C)/OMB/C+			CDC D	PF Replacement	
Constrained (C)/OMB/C+	SDC	SDC-12	SDC-B	PF Primary	
OMB/C+	EPT	EPT-06		VF to PF	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	EPT	EPT-21	T04 0	PF Secondary	
C+	TCA	TCA-19	TCA-C	VF to PF	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	HLT	HLT-11		VF Primary	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Unconstrained/C++	HVM	HVM-34		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	SDC	SDC-35		PF Secondary	
C+	RGV	RGV-22		PF Primary	
C+	RGV	RGV-20		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-07		PF Replacement	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Unconstrained/C++	SWB	SWB-14		VF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-01		PF Primary	
Constrained (C)/OMB/C+	YUM	YUM-04		PF Replacement	
Constrained (C)/OMB/C+	EPT	EPT-18	EPT-B	PF Primary	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	RGV	RGV-09		PF Primary	
Unconstrained/C++	EPT	EPT-03		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-30		PF Primary	
Unconstrained/C++	HVM	HVM-08		PF Primary	
C+	LRT	LRT-10		PF Secondary	
Unconstrained/C++	DRT	DRT-04		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-02		PF Replacement	
Constrained (C)/OMB/C+	EPT	EPT-01	EPT-A	PF Primary	
C+	TCA	TCA-04a		VF to PF	
Unconstrained/C++	SPW	SPW-26		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-30		PF Replacement	
Unconstrained/C++	EPT	EPT-09		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-26		PF Primary	
Unconstrained/C++	RGV	RGV-12		PF Primary	
OMB/C+	TCA	TCA-23		VF to PF	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	TCA	TCA-06A		PF Primary	

					(h) (7)(E)
OMB/C+	TCA	TCA-24		PF Replacement	
C+	ELC	ELC-04		PF Secondary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	RGV	RGV-07		PF Primary	
C+	BBT	BBT-01		PF Primary	
C+	RGV	RGV-26		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	EPT	EPT-19		PF Secondary	
C+	RGV	RGV-16		PF Primary	
C+	RGV	RGV-17		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-02		PF Replacement	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
C+	TCA	TCA-03		VF to PF	
C+	LRT	LRT-18		PF Secondary	
Constrained (C)/OMB/C+	SDC	SDC-21	SDC-B	PF Primary	
C+	TCA	TCA-05		PF Secondary	
Unconstrained/C++	RGV	RGV-09		PF Primary	
Unconstrained/C++	HLT	HLT-31		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-26		PF Primary	
C+	LRT	LRT-17		PF Primary	
Unconstrained/C++	DRT	DRT-01		PF Primary	
Unconstrained/C++	SPW	SPW-02		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	RGV	RGV-27		PF Primary	
C+	RGV	RGV-25		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	
C+	EPT	EPT-24		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-22A	SDC-B	PF Primary	
Unconstrained/C++	RGV	RGV-06		PF Primary	
Unconstrained/C++	HLT	HLT-03		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	RGV	RGV-10		PF Primary	
OMB/C+	EPT	EPT-15		PF Replacement	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-26		PF Primary	
Unconstrained/C++	SPW	SPW-35		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	ELC	ELC-04		PF Secondary	
C+	TCA	TCA-19	TCA-C	PF Primary	
C+	SDC	SDC-11		PF Secondary	
C+	EPT	EPT-19		PF Secondary	
OMB/C+	EPT	EPT-10		VF to PF	
C+	EPT	EPT-24		PF Primary	

					/b\ /7\/C\
Unconstrained/C++	HLT	HLT-18		VF Primary	$(D)(7)(\Box)$
Unconstrained/C++	RGV	RGV-12		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-01		PF Replacement	
C+	EPT	EPT-24		PF Primary	
C+	EPT	EPT-19		PF Secondary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HVM	HVM-41		PF Primary	
C+	LRT	LRT-14		PF Secondary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	SWB	SWB-24		VF Primary	
OMB/C+	ELC	ELC-02		VF to PF	
C+	BBT	BBT-01		Unconst. PF	
C+	RGV	RGV-26		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-10		PF Primary	
OMB/C+	EPT	EPT-04		VF to PF	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-22		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	EPT	EPT-22		PF Secondary	
Unconstrained/C++	DRT	DRT-02		PF Primary	
Unconstrained/C++	SPW	SPW-14		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	RGV	RGV-01		PF Primary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Unconstrained/C++	SWB	SWB-39		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-18		PF Primary	
C+	LRT	LRT-19		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-25		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	
Unconstrained/C++	TCA	TCA-06J		VF to PF	
OMB/C+	EPT	EPT-17		VF to PF	
Constrained (C)/OMB/C+	SDC	SDC-22A	SDC-B	PF Primary	
Unconstrained/C++	RGV	RGV-06		PF Primary	
Unconstrained/C++	HLT	HLT-05		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	SWB	SWB-38		PF Primary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HVM	HVM-29		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	TCA	TCA-05		PF Secondary	
C+	RGV	RGV-22		PF Primary	
C+	RGV	RGV-17		PF Primary	
C+	SDC	SDC-35		PF Secondary	

_			
C+	EPT	EPT-19	PF Secondary
Unconstrained/C++	RGV	RGV-08	PF Primary
Unconstrained/C++	SWB	SWB-09	VF Primary
C+	EPT YUM	EPT-24	PF Primary
OMB/C+	_	YUM-06	PF Replacement
Unconstrained/C++	RGV	RGV-08	PF Primary
OMB/C+	EPT	EPT-02	VF to PF
C+	EPT HVM	EPT-24 HVM-03	PF Primary VF Primary
Unconstrained/C++ Unconstrained/C++	RGV	RGV-12	PF Primary
•	SDC	SDC-02	•
Constrained (C)/OMB/C+ C+	EPT	EPT-24	PF Replacement PF Primary
Unconstrained/C++	RGV	RGV-08	PF Primary
Unconstrained/C++	SPW	SPW-24	PF Primary
Constrained (C)/OMB/C+	ELC	ELC-03	PF Replacement
Unconstrained/C++	DRT	DRT-03	PF Primary
Constrained (C)/OMB/C+	SDC	SDC-27	PF Replacement
C+	EPT	EPT-24	PF Primary
Unconstrained/C++	RGV	RGV-08	PF Primary
OMB/C+	TCA	TCA-21	VF to PF
Constrained (C)/OMB/C+	EPT	EPT-20	PF Replacement
C+	RGV	RGV-26	PF Primary
C+	EPT	EPT-24	PF Primary
Unconstrained/C++	RGV	RGV-11	PF Primary
Unconstrained/C++	SPW	SPW-27	VF Primary
Unconstrained/C++	EPT	EPT-23	Unconst. PF
OMB/C+	TCA	TCA-09C	PF Primary
OMB/C+	EPT	EPT-17	VF to PF
Unconstrained/C++	DRT	DRT-03	PF Primary
Unconstrained/C++	SPW	SPW-38	PF Primary
C+	EPT	EPT-24	PF Primary
C+	ELC	ELC-04	PF Secondary
Unconstrained/C++	RGV	RGV-07	PF Primary
OMB/C+	EPT	EPT-12	VF to PF
C+	EPT	EPT-24	PF Primary
C+	BBT	BBT-02	Unconst. PF
C+	RGV	RGV-16	PF Primary
Unconstrained/C++	RGV	RGV-13	PF Primary
Constrained (C)/OMB/C+	SDC	SDC-01	PF Replacement
C+	EPT	EPT-24	PF Primary
Unconstrained/C++	RGV	RGV-08	PF Primary
C+	TCA	TCA-02	VF to PF
Constrained (C)/OMB/C+	SDC	SDC-16	PF Replacement
Unconstrained/C++	HLT	HLT-25	VF Primary
Unconstrained/C++	EPT	EPT-23	Unconst. PF
C+	RGV	RGV-26	PF Primary
C+	LRT	LRT-11	PF Primary

	5.617	50111			(b) (7)(E)
C+	RGV	RGV-15		PF Primary	(D)(I)(L)
Unconstrained/C++	SPW	SPW-10		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-22		PF Primary	
Unconstrained/C++	RGV	RGV-29		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	SWB	SWB-31		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	YUM	YUM-09		VF to PF	
Unconstrained/C++	RGV	RGV-06		PF Primary	
Unconstrained/C++	BLW	BLW-02		PF Primary	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	RGV	RGV-10		PF Primary	
OMB/C+	EPT	EPT-14		VF to PF	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HVM	HVM-22		VF Primary	
Unconstrained/C++	DRT	DRT-02		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-04	SDC-A	PF Primary	
OMB/C+	EPT	EPT-17		VF to PF	
Unconstrained/C++	SWB	SWB-01		PF Primary	
Unconstrained/C++	DRT	DRT-05		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	EPT	EPT-21		PF Secondary	
Constrained (C)/OMB/C+	SDC	SDC-36	SDC-E	PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
C+	TCA	TCA-11	TCA-A	Unconst. PF	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-24		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Unconstrained/C++	HVM	HVM-36		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
OMB/C+	EPT	EPT-16		VF to PF	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Unconstrained/C++	SWB	SWB-17		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	LRT	LRT-08		PF Secondary	
C+	TCA	TCA-19	TCA-C	VF to PF	
Unconstrained/C++	EPT	EPT-03		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-15		PF Primary	
C+	RGV	RGV-20		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-07		PF Replacement	
Unconstrained/C++	TCA	TCA-24B		PF Replacement	
Constrained (C)/OMB/C+	SDC	SDC-02		PF Replacement	
• • •				·	

					(b) (7)(E)
Unconstrained/C++	EPT	EPT-07		PF Primary	(D)(I)(L)
OMB/C+	YUM	YUM-05		PF Replacement	
Constrained (C)/OMB/C+	EPT	EPT-18	EPT-B	PF Primary	
C+	ELC	ELC-06		PF Secondary	
Constrained (C)/OMB/C+	SDC	SDC-31	SDC-D	PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	RGV	RGV-30		PF Primary	
Unconstrained/C++	HVM	HVM-10		PF Primary	
OMB/C+	EPT	EPT-14		VF to PF	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-22		PF Primary	
C+	RGV	RGV-21		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	
Unconstrained/C++	TCA	TCA-06C		PF Primary	
Unconstrained/C++	DRT	DRT-02		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-04	SDC-A	PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	SDC	SDC-35		PF Secondary	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	YUM	YUM-11		VF to PF	
Constrained (C)/OMB/C+	SDC	SDC-08		PF Replacement	
Unconstrained/C++	RGV	RGV-06		PF Primary	
Unconstrained/C++	BLW	BLW-01		PF Primary	
Unconstrained/C++	DRT	DRT-05		PF Primary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HVM	HVM-24		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-23		PF Primary	
C+	RGV	RGV-17		PF Primary	
Unconstrained/C++	SWB	SWB-03		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	TCA	TCA-06		VF to PF	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
OMB/C+	TCA	TCA-14		VF to PF	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	HLT	HLT-33		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-02		PF Replacement	
C+	RGV	RGV-15		PF Primary	
C+	RGV	RGV-20		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-07		PF Replacement	
C+	ELC	ELC-05		PF Secondary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-22		PF Replacement	
C+	EPT	EPT-24		PF Primary	
				•	

					(h) (7)(E)
OMB/C+	YUM	YUM-05		PF Replacement	(D) $(I)$
Constrained (C)/OMB/C+	EPT	EPT-18	EPT-B	PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	ELC	ELC-04		PF Secondary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
C+	RGV	RGV-26		PF Primary	
Unconstrained/C++	RGV	RGV-10		PF Primary	
Unconstrained/C++	HVM	HVM-12		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	TCA	TCA-23B		PF Replacement	
Unconstrained/C++	EPT	EPT-07		PF Primary	
Unconstrained/C++	DRT	DRT-02		PF Primary	
Unconstrained/C++	SPW	SPW-17		VF Primary	
C+	EPT	EPT-24		PF Primary	
OMB/C+	EPT	EPT-10		VF to PF	
C+	EPT	EPT-24		PF Primary	
Constrained (C)/OMB/C+	EPT	EPT-18A		PF Replacement	
C+	RGV	RGV-26		PF Primary	
C+	EPT	EPT-19		PF Secondary	
Constrained (C)/OMB/C+	SDC	SDC-01		PF Replacement	
C+	EPT	EPT-24		PF Primary	
C+	TCA	TCA-16	TCA-B	Unconst. PF	
C+	LRT	LRT-08		PF Secondary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	HLT	HLT-20		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	LRT	LRT-07		PF Primary	
C+	TCA	TCA-13	TCA-A	Unconst. PF	
C+	RGV	RGV-26		PF Primary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HVM	HVM-43		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-22		PF Primary	
C+	RGV	RGV-19		PF Primary	
C+	YUM	YUM-01		PF Secondary	
C+	EPT	EPT-21		PF Secondary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	SWB	SWB-26		PF Primary	
Constrained (C)/OMB/C+	YUM	YUM-03		PF Replacement	
Unconstrained/C++	RGV	RGV-10		PF Primary	
OMB/C+	EPT	EPT-04		VF to PF	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	ELC	ELC-04		PF Secondary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HVM	HVM-17		VF Primary	
Unconstrained/C++	DRT	DRT-02		PF Primary	

				_	(b) (7)(E)
Constrained (C)/OMB/C+	SDC	SDC-03		PF Replacement	(D)(I)(C)
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	RGV	RGV-08		PF Primary	
C+	RGV	RGV-25		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	
Unconstrained/C++	DRT	DRT-03		PF Primary	
C+	EPT	EPT-24		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-22A	SDC-B	PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	HLT	HLT-08		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
OMB/C+	RGV	RGV-05	RGV-B	PF Primary	
C+	RGV	RGV-26		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Unconstrained/C++	HVM	HVM-31		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	SDC	SDC-35		PF Secondary	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	TCA	TCA-06K		PF Primary	
OMB/C+	EPT	EPT-06		VF to PF	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Unconstrained/C++	SWB	SWB-11		VF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	SWB	SWB-08		PF Primary	
C+	TCA	TCA-19	TCA-C	Unconst. PF	
OMB/C+	EPT	EPT-02		VF to PF	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-22		PF Primary	
C+	RGV	RGV-20		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-07		PF Replacement	
Constrained (C)/OMB/C+	SDC	SDC-02		PF Replacement	
C+	EPT	EPT-24		PF Primary	
C+	EPT	EPT-21		PF Secondary	
OMB/C+	YUM	YUM-06		PF Replacement	
Unconstrained/C++	ELC	ELC-01		PF Primary	
C+	ELC	ELC-06		PF Secondary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-28		PF Replacement	
Unconstrained/C++	HVM	HVM-05		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-26		PF Primary	
C+	LRT	LRT-02		PF Secondary	
Unconstrained/C++	SPW	SPW-22		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
OMB/C+	TCA	TCA-07A		VF to PF	
C+	TCA	TCA-13	TCA-A	PF Primary	

C+	ELC	ELC-04		PF Secondary	(b) $(7)(F)$
Unconstrained/C++	RGV	RGV-08		PF Primary	
OMB/C+	TCA	TCA-21		VF to PF	
Unconstrained/C++	EPT	EPT-08		PF Primary	
C+	SDC	SDC-35		PF Secondary	
Unconstrained/C++	RGV	RGV-07		PF Primary	
Unconstrained/C++	HLT	HLT-13		VF Primary	
Unconstrained/C++	RGV	RGV-11		PF Primary	
Unconstrained/C++	SPW	SPW-29		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	EPT	EPT-19		PF Secondary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
C+	TCA	TCA-02		VF to PF	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-09		PF Primary	
Unconstrained/C++	HLT	HLT-28		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-22		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	DRT	DRT-04		PF Primary	
Unconstrained/C++	SPW	SPW-04		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	RGV	RGV-01		PF Primary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Unconstrained/C++	SWB	SWB-33		VF Primary	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-26		PF Primary	
C+	LRT	LRT-15		PF Primary	
C+	SDC	SDC-10		PF Secondary	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	RGV	RGV-10		PF Primary	
Unconstrained/C++	HVM	HVM-07		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	LRT	LRT-06		PF Secondary	
Constrained (C)/OMB/C+	SDC	SDC-02		PF Replacement	
Constrained (C)/OMB/C+	EPT	EPT-01	EPT-A	PF Primary	
Unconstrained/C++	SPW	SPW-39		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	ELC	ELC-04		PF Secondary	
Constrained (C)/OMB/C+	SDC	SDC-29	SDC-D	PF Primary	
Unconstrained/C++	EPT	EPT-09		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-26		PF Primary	
Unconstrained/C++	RGV	RGV-11		PF Primary	

Unconstrained/C++	TCA	TCA-22	TCA-D	PF Primary	(b) (7)(F)
C+	EPT	EPT-24		PF Primary	$(\mathbf{D})$
C+	EPT	EPT-19		PF Secondary	
C+	TCA	TCA-13	TCA-A	PF Primary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Unconstrained/C++	RGV	RGV-07		PF Primary	
Unconstrained/C++	HLT	HLT-15		VF Primary	
C+	YUM	YUM-01		PF Secondary	
C+	EPT	EPT-21		PF Secondary	
C+	RGV	RGV-26		PF Primary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HVM	HVM-38		VF Primary	
C+	RGV	RGV-22		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	RGV	RGV-01		PF Primary	
C+	SDC	SDC-11		PF Secondary	
Unconstrained/C++	RGV	RGV-09		PF Primary	
Unconstrained/C++	EPT	EPT-03		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	RGV	RGV-30		PF Primary	
C+	LRT	LRT-03		PF Primary	
Unconstrained/C++	DRT	DRT-01		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-03		PF Replacement	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-21		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-33	SDC-E	PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	SDC	SDC-35		PF Secondary	
C+	EPT	EPT-19		PF Secondary	
Constrained (C)/OMB/C+	SDC	SDC-22		PF Replacement	
Unconstrained/C++	HLT	HLT-02		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
OMB/C+	EPT	EPT-15		PF Replacement	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Unconstrained/C++	HVM	HVM-26		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	TCA	TCA-06E		PF Primary	
Unconstrained/C++	SDC	SDC-05		PF Primary	
OMB/C+	EPT	EPT-17		VF to PF	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	SWB	SWB-05		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
C+	TCA	TCA-17	TCA-B	PF Primary	

		50 <b>T</b> 0.4		DE D :	(b) (7)(F)
C+	EPT	EPT-24		PF Primary	(D)(I)(L)
C+	RGV	RGV-22		PF Primary	
C+	RGV	RGV-17		PF Primary	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-02		PF Replacement	
C+	EPT	EPT-24		PF Primary	
Constrained (C)/OMB/C+	TCA	TCA-04		PF Replacement	
OMB/C+	ELC	ELC-02		VF to PF	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-24		PF Replacement	
Unconstrained/C++	HLT	HLT-36		VF Primary	
C+	RGV	RGV-26		PF Primary	
C+	RGV	RGV-15		PF Primary	
Unconstrained/C++	SPW	SPW-11		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-07		PF Replacement	
Unconstrained/C++	TCA	TCA-18A		PF Replacement	
Unconstrained/C++	EPT	EPT-07		PF Primary	
Unconstrained/C++	SWB	SWB-41		VF Primary	
Constrained (C)/OMB/C+	EPT	EPT-20		PF Replacement	
Unconstrained/C++	RGV	RGV-07		PF Primary	
Unconstrained/C++	RGV	RGV-10		PF Primary	
Unconstrained/C++	SWB	SWB-22		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	EPT	EPT-19		PF Secondary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	RGV	RGV-13		PF Primary	
Unconstrained/C++	DRT	DRT-02		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-07		PF Replacement	
C+	EPT	EPT-24		PF Primary	
C+	LRT	LRT-24		PF Secondary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
C+	TCA	TCA-16	TCA-B	Unconst. PF	
C+	EPT		TCA-B		
		EPT-19		PF Secondary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-09		PF Primary	
Unconstrained/C++	HLT	HLT-22		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Constrained (C)/OMB/C+	SDC	SDC-01		PF Replacement	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	DRT	DRT-04		PF Primary	
Unconstrained/C++	SPW	SPW-08		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Constrained (C)/OMB/C+	SDC	SDC-14	SDC-B	PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	SWB	SWB-28		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-26		PF Primary	

	LDT	LDT 07		DE Duimon.	/b) /7\/E\
C+	LRT	LRT-07		PF Primary	(b) (7)(E)
C+	ELC	ELC-04		PF Secondary	
Unconstrained/C++	RGV	RGV-10		PF Primary	
Unconstrained/C++	EPT	EPT-05		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-22		PF Primary	
Unconstrained/C++	RGV	RGV-29		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	
Unconstrained/C++	DRT	DRT-02		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-03		PF Replacement	
OMB/C+	EPT	EPT-17		VF to PF	
Unconstrained/C++	RGV	RGV-01		PF Primary	
Unconstrained/C++	SWB	SWB-09		VF Primary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HVM	HVM-19		PF Primary	
OMB/C+	RGV	RGV-08	RGV-C	PF Primary	
C+	RGV	RGV-26		PF Primary	
Unconstrained/C++	RGV	RGV-03		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	SPW	SPW-30		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	
OMB/C+	EPT	EPT-06		VF to PF	
Unconstrained/C++	RGV	RGV-08		PF Primary	
C+	TCA	TCA-07	TCA-A	Unconst. PF	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-01		PF Replacement	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-15		PF Primary	
C+	RGV	RGV-20		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-07		PF Replacement	
C+	EPT	EPT-21		PF Secondary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-18		PF Replacement	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Constrained (C)/OMB/C+	YUM	YUM-04		PF Replacement	
Constrained (C)/OMB/C+	EPT	EPT-18	EPT-B	PF Primary	
C+	ELC	ELC-05	<b>_</b>	PF Secondary	
C+	TCA	TCA-19	TCA-C	Unconst. PF	
OMB/C+	EPT	EPT-02	. J J	VF to PF	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-30		PF Primary	
C+	LRT	LRT-09		PF Primary	
Unconstrained/C++	DRT	DRT-04		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Shedhali alilea/ Ci i	L. I	LI I 23		Officorist. I I	

					/L\ / <del>7</del> \/E\
Unconstrained/C++	RGV	RGV-29		PF Primary	(D)(7)(E)
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	
Unconstrained/C++	DRT	DRT-03		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	TCA	TCA-05		PF Secondary	
Unconstrained/C++	RGV	RGV-06		PF Primary	
Unconstrained/C++	EPT	EPT-08		PF Primary	
OMB/C+	EPT	EPT-14		VF to PF	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HVM	HVM-21		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	TCA	TCA-06F		VF to PF	
Constrained (C)/OMB/C+	SDC	SDC-03		PF Replacement	
	EPT	EPT-17		VF to PF	
OMB/C+					
Unconstrained/C++	SPW	SPW-36		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	ELC	ELC-04		PF Secondary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
OMB/C+	TCA	TCA-10		VF to PF	
C+	RGV	RGV-26		PF Primary	
C+	RGV	RGV-17		PF Primary	
C+	SDC	SDC-35		PF Secondary	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-02		PF Replacement	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-02		PF Primary	
C+	TCA	TCA-03		VF to PF	
C+	ELC	ELC-05		PF Secondary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
		SDC-20		•	
Constrained (C)/OMB/C+	SDC			PF Replacement	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	HLT	HLT-30		VF Primary	
C+	LRT	LRT-08		PF Secondary	
C+	TCA	TCA-19	TCA-C	Unconst. PF	
C+	RGV	RGV-26		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-15		PF Primary	
Unconstrained/C++	SPW	SPW-01		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-07		PF Replacement	
Unconstrained/C++	TCA	TCA-27		VF to PF	
C+	RGV	RGV-22		PF Primary	
Unconstrained/C++	EPT	EPT-13		PF Primary	
Unconstrained/C++	SWB	SWB-35		PF Primary	
Constrained (C)/OMB/C+	EPT	EPT-18	EPT-B	PF Primary	
Constrained (C)/ ONID/ C+	LII	FI I-TO	בו ו-ט	i i i i i i i i i ai y	

					(b) (7)(E)
Unconstrained/C++	RGV	RGV-06		PF Primary	
Unconstrained/C++	RGV	RGV-10		PF Primary	
Unconstrained/C++	HVM	HVM-09		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-16		PF Primary	
C+	EPT	EPT-19		PF Secondary	
C+	TCA	TCA-04b		VF to PF	
Unconstrained/C++	DRT	DRT-02		PF Primary	
Unconstrained/C++	SPW	SPW-34		PF Primary	
C+	EPT	EPT-24		PF Primary	
Constrained (C)/OMB/C+	TCA	TCA-25		PF Replacement	
C+	ELC	ELC-04		PF Secondary	
Unconstrained/C++	EPT	EPT-09		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	EPT	EPT-21		PF Secondary	
Unconstrained/C++	HLT	HLT-17		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Constrained (C)/OMB/C+	SDC	SDC-01		PF Replacement	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HVM	HVM-40		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	SWB	SWB-21		VF Primary	
C+	RGV	RGV-26		PF Primary	
Unconstrained/C++	RGV	RGV-10		PF Primary	
OMB/C+	EPT	EPT-04		VF to PF	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-22		PF Primary	
C+	RGV	RGV-19		PF Primary	
Unconstrained/C++	DRT	DRT-01		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-03		PF Replacement	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	RGV	RGV-01		PF Primary	
OMB/C+	YUM	YUM-05		PF Replacement	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	DRT	DRT-04A		PF Primary	
C+	RGV	RGV-18		PF Primary	
Unconstrained/C++	HVM	HVM-14		PF Primary	
OMB/C+	RGV	RGV-01	RGV-A	PF Primary	
C+	RGV	RGV-26		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	SPW	SPW-18		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	

					(b) $(7)(E)$
Unconstrained/C++	TCA	TCA-06G		PF Primary	
OMB/C+	EPT	EPT-17		VF to PF	
C+	SDC	SDC-10		PF Secondary	
Constrained (C)/OMB/C+	SDC	SDC-22		PF Replacement	
Unconstrained/C++	RGV	RGV-08		PF Primary	
OMB/C+	EPT	EPT-12		VF to PF	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Unconstrained/C++	HVM	HVM-28		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	ELC	ELC-06		PF Secondary	
C+	RGV	RGV-16		PF Primary	
C+	RGV	RGV-17		PF Primary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Unconstrained/C++	SWB	SWB-07		VF Primary	
C+	EPT	EPT-24		PF Primary	
C+	LRT	LRT-18		PF Secondary	
Constrained (C)/OMB/C+	TCA	TCA-04		PF Replacement	
OMB/C+	ELC	ELC-02		VF to PF	
C+	TCA	TCA-19	TCA-C	VF to PF	
C+	TCA	TCA-20	TCA-C	Unconst. PF	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	HVM	HVM-02		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Constrained (C)/OMB/C+	SDC	SDC-02		PF Replacement	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-14		PF Primary	
Unconstrained/C++	SPW	SPW-23		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Constrained (C)/OMB/C+	SDC	SDC-26		PF Replacement	
OMB/C+	TCA	TCA-21		VF to PF	
C+	EPT	EPT-24		PF Primary	
C+	EPT	EPT-19		PF Secondary	
C+	RGV	RGV-26		PF Primary	
Unconstrained/C++	SPW	SPW-33		VF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-11		PF Primary	
C+	TCA	TCA-09	TCA-A	Unconst. PF	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-08		PF Replacement	
C+	EPT	EPT-24		PF Primary	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	RGV	RGV-07		PF Primary	
Unconstrained/C++	HLT	HLT-10		VF Primary	
C+	EPT	EPT-24		PF Primary	
C+	EPT	EPT-22		PF Secondary	
C+	RGV	RGV-16		PF Primary	

					(b) (7)(E)
Unconstrained/C++	HVM	HVM-33		PF Primary	(D)(I)(C)
C+	SDC	SDC-35		PF Secondary	
C+	RGV	RGV-22		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	SWB	SWB-13		VF Primary	
C+	LRT	LRT-12		PF Secondary	
Unconstrained/C++	RGV	RGV-09		PF Primary	
Unconstrained/C++	HLT	HLT-24		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	ELC	ELC-04		PF Secondary	
C+	TCA	TCA-19	TCA-C	VF to PF	
C+	RGV	RGV-26		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-15		PF Primary	
C+	RGV	RGV-20		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-07		PF Replacement	
C+	RGV	RGV-22		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
OMB/C+	YUM	YUM-06		PF Replacement	
Unconstrained/C++	ELC	ELC-01		PF Primary	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	YUM	YUM-08		VF to PF	
Constrained (C)/OMB/C+	SDC	SDC-28		PF Replacement	
C+	ELC	ELC-06		PF Secondary	
Unconstrained/C++	RGV	RGV-10		PF Primary	
Unconstrained/C++	HVM	HVM-04		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	EPT	EPT-19		PF Secondary	
C+	RGV	RGV-26		PF Primary	
Unconstrained/C++	DRT	DRT-02		PF Primary	
Unconstrained/C++	SPW	SPW-20		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	TCA	TCA-13	TCA-A	PF Primary	
Unconstrained/C++	DRT	DRT-05		PF Primary	
OMB/C+	TCA	TCA-21a		VF to PF	
C+	EPT	EPT-24		PF Primary	
C+	EPT	EPT-21		PF Secondary	
C+	TCA	TCA-19	TCA-C	Unconst. PF	
Unconstrained/C++	RGV	RGV-07		PF Primary	
Unconstrained/C++	HLT	HLT-12		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	YUM	YUM-01		PF Secondary	
Unconstrained/C++	RGV	RGV-11		PF Primary	
Unconstrained/C++	SPW	SPW-28		VF Primary	
C+	EPT	EPT-24		PF Primary	

			/ <b>L</b> \
C+	RGV	RGV-16	$_{PFPrimary}$ (b) (7)(E
Unconstrained/C++	HVM	HVM-35	PF Primary
Unconstrained/C++	EPT	EPT-23	Unconst. PF
Unconstrained/C++	DRT	DRT-03	PF Primary
Constrained (C)/OMB/C+	SDC	SDC-13	PF Replacement
OMB/C+	EPT	EPT-16	VF to PF
C+	LRT	LRT-08	PF Secondary
Unconstrained/C++	RGV	RGV-08	PF Primary
Unconstrained/C++	SWB	SWB-16	PF Primary
Unconstrained/C++	EPT	EPT-23	Unconst. PF
Unconstrained/C++	RGV	RGV-09	PF Primary
Unconstrained/C++	EPT	EPT-03	PF Primary
C+	RGV	RGV-22	PF Primary
C+	RGV	RGV-20	PF Primary
Unconstrained/C++	DRT	DRT-04	PF Primary
Constrained (C)/OMB/C+	SDC	SDC-02	PF Replacement
Unconstrained/C++	EPT	EPT-23	Unconst. PF
Unconstrained/C++	RGV	RGV-01	PF Primary
Constrained (C)/OMB/C+	YUM	YUM-04	PF Replacement
Unconstrained/C++	DRT	DRT-03	PF Primary
Constrained (C)/OMB/C+	SDC	SDC-30	PF Replacement
C+	EPT	EPT-24	PF Primary
Unconstrained/C++	RGV	RGV-30	PF Primary
C+	LRT	LRT-13	PF Primary
C+	EPT	EPT-19	PF Secondary
C+	RGV	RGV-26	PF Primary
C+	EPT	EPT-24	PF Primary
C+	RGV	RGV-21	PF Primary
Constrained (C)/OMB/C+	ELC	ELC-03	PF Replacement
C+	EPT	EPT-22	PF Secondary
Unconstrained/C++	TCA	TCA-06B	VF to PF
OMB/C+	EPT	EPT-17	VF to PF
Unconstrained/C++	BLW	BLW-03	PF Primary
Unconstrained/C++	EPT	EPT-23	Unconst. PF
Unconstrained/C++	RGV	RGV-12	PF Primary
Unconstrained/C++	HVM	HVM-23	PF Primary
Unconstrained/C++	EPT	EPT-23	Unconst. PF
C+	RGV	RGV-23	PF Primary
C+	RGV	RGV-17	PF Primary
C+	SDC	SDC-35	PF Secondary
C+	EPT	EPT-19	PF Secondary
Unconstrained/C++	DRT	DRT-03	PF Primary
Unconstrained/C++	SWB	SWB-02	PF Primary
C+	EPT	EPT-24	PF Primary
C+	TCA	TCA-06	VF to PF
C+	BBT	BBT-01	PF Primary
OMB/C+	TCA	TCA-12	VF to PF

					(h) (7)(E)
C+	EPT	EPT-24		PF Primary	(D)(I)(E)
Unconstrained/C++	HLT	HLT-32		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-02		PF Replacement	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-15		PF Primary	
Unconstrained/C++	SPW	SPW-12		PF Primary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-22		PF Replacement	
Unconstrained/C++	SWB	SWB-37		PF Primary	
Constrained (C)/OMB/C+	EPT	EPT-18	EPT-B	PF Primary	
C+	ELC	ELC-04		PF Secondary	
C+	TCA	TCA-19	TCA-C	Unconst. PF	
C+	RGV	RGV-26		PF Primary	
C+	LRT	LRT-17		PF Primary	
Unconstrained/C++	RGV	RGV-10		PF Primary	
OMB/C+	EPT	EPT-15		PF Replacement	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	TCA	TCA-24A		PF Replacement	
Unconstrained/C++	RGV	RGV-28		PF Primary	
C+	RGV	RGV-25		PF Primary	
Unconstrained/C++	DRT	DRT-02		PF Primary	
Unconstrained/C++	SDC	SDC-05		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	ELC	ELC-04		PF Secondary	
Unconstrained/C++	RGV	RGV-06		PF Primary	
Unconstrained/C++	HLT	HLT-04		VF Primary	
C+	SDC	SDC-35		PF Secondary	
C+	EPT	EPT-21		PF Secondary	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-16		PF Primary	
C+	RGV	RGV-22		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
C+	TCA	TCA-19	TCA-C	VF to PF	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	HLT	HLT-19		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-26		PF Primary	
C+	LRT	LRT-07		PF Primary	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Unconstrained/C++	HVM	HVM-42		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-22		PF Primary	
C+	RGV	RGV-19		PF Primary	

					/L\ <b>/</b> 7\/C\
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	(b) (1)(b)
Unconstrained/C++	DRT	DRT-03		PF Primary	
Unconstrained/C++	SWB	SWB-25		VF Primary	
C+	EPT	EPT-24		PF Primary	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	RGV	RGV-01		PF Primary	
Constrained (C)/OMB/C+	YUM	YUM-03		PF Replacement	
Constrained (C)/OMB/C+	EPT	EPT-20		PF Replacement	
OMB/C+	EPT	EPT-04		VF to PF	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-18		PF Primary	
Unconstrained/C++	HVM	HVM-16		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
OMB/C+	TCA	TCA-09B		VF to PF	
Unconstrained/C++	DRT	DRT-02		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-03		PF Replacement	
OMB/C+	EPT	EPT-17		VF to PF	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	SPW	SPW-16		VF Primary	
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	
C+	SDC	SDC-11		PF Secondary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
C+	EPT	EPT-19		PF Secondary	
Constrained (C)/OMB/C+	SDC	SDC-22		PF Replacement	
Unconstrained/C++	RGV	RGV-08		PF Primary	
OMB/C+	EPT	EPT-12		VF to PF	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
OMB/C+	RGV	RGV-04	RGV-B	PF Primary	
C+	RGV	RGV-26		PF Primary	
Unconstrained/C++	RGV	RGV-13		PF Primary	
C+	ELC	ELC-05		PF Secondary	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-01		PF Replacement	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	TCA	TCA-06I		PF Primary	
C+	TCA	TCA-01		VF to PF	
Unconstrained/C++	DRT	DRT-03		PF Primary	
C+	EPT	EPT-24		PF Primary	
OMB/C+	EPT	EPT-02		VF to PF	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-22		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	HLT	HLT-26		VF Primary	
Constrained (C)/OMB/C+	SDC	SDC-02		PF Replacement	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	RGV	RGV-01		PF Primary	
Unconstrained/C++	DRT	DRT-03		PF Primary	

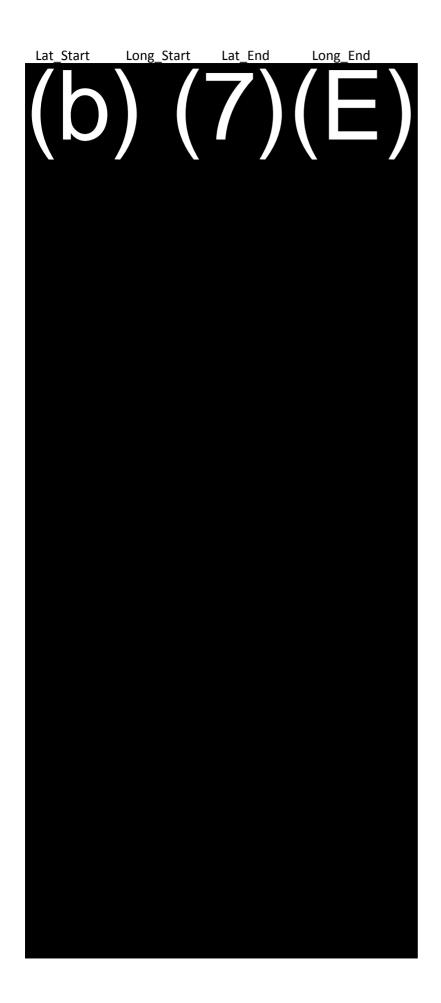
Llana matura ima d /C	CM/D	CM/D 27		DE Duine em :	(b) $(7)(E)$
Unconstrained/C++	SWB	SWB-27		PF Primary	(10)
C+	EPT	EPT-24		PF Primary	
C+	LRT	LRT-07		PF Primary	
Unconstrained/C++	EPT	EPT-05		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-19		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	
OMB/C+	TCA	TCA-09D		VF to PF	
Constrained (C)/OMB/C+	SDC	SDC-03		PF Replacement	
OMB/C+	EPT	EPT-17		VF to PF	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	EPT	EPT-08		PF Primary	
C+	EPT	EPT-19		PF Secondary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HVM	HVM-18		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	BBT	BBT-01	20112	Unconst. PF	
OMB/C+	RGV	RGV-05	RGV-B	PF Primary	
C+	RGV	RGV-26		PF Primary	
Unconstrained/C++	RGV	RGV-13		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	SPW	SPW-37		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	TCA	TCA-02		VF to PF	
Unconstrained/C++	RGV	RGV-08		PF Primary	
OMB/C+	EPT	EPT-12		VF to PF	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	HLT	HLT-27		VF Primary	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-01		PF Replacement	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-15		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-07		PF Replacement	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	DRT	DRT-03	CDC D	PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-17	SDC-B	PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	SWB	SWB-32		VF Primary	
Unconstrained/C++	ELC	ELC-01		PF Primary	
C+	ELC	ELC-05	TCAC	PF Secondary	
C+	TCA	TCA-19	TCA-C	VF to PF	
C+	RGV	RGV-26		PF Primary	
C+	EPT	EPT-24		PF Primary	
C+	SDC	SDC-10		PF Secondary	
Unconstrained/C++	RGV	RGV-10		PF Primary	
OMB/C+	EPT	EPT-14		VF to PF	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	

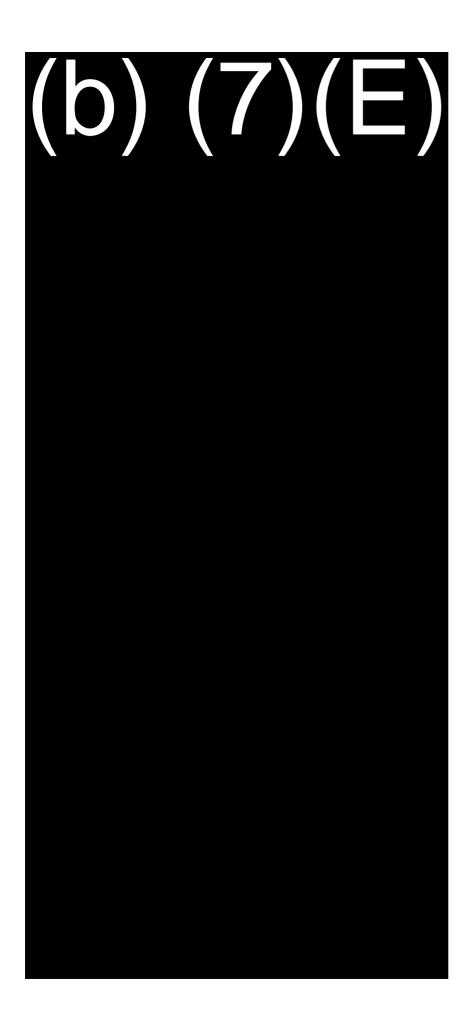
					/ <b>b</b> \ / <b>7</b> \/ <b>C</b> \
C+	ELC	ELC-04		PF Secondary	(D)(7)(E)
C+	RGV	RGV-22		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	DRT	DRT-02		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-04	SDC-A	PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Unconstrained/C++	YUM	YUM-10		VF to PF	
Unconstrained/C++	RGV	RGV-06		PF Primary	
Unconstrained/C++	DRT	DRT-05		PF Primary	
OMB/C+	TCA	TCA-21		VF to PF	
C+	EPT	EPT-24		PF Primary	
C+	SDC	SDC-35		PF Secondary	
C+	EPT	EPT-21		PF Secondary	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HLT	HLT-06		VF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
C+	TCA	TCA-13	TCA-A	PF Primary	
Constrained (C)/OMB/C+	TCA	TCA-26		PF Replacement	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	HLT	HLT-14		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
Constrained (C)/OMB/C+	YUM	YUM-02		PF Replacement	
C+	RGV	RGV-16		PF Primary	
Unconstrained/C++	HVM	HVM-37		PF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-22		PF Primary	
C+	RGV	RGV-20		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-07		PF Replacement	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Unconstrained/C++	SWB	SWB-18		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-01		PF Primary	
OMB/C+	YUM	YUM-05		PF Replacement	
Unconstrained/C++	RGV	RGV-09		PF Primary	
Unconstrained/C++	EPT	EPT-03		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-30		PF Primary	
Unconstrained/C++	HVM	HVM-11		VF Primary	
Unconstrained/C++	DRT	DRT-04		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-02		PF Replacement	
Unconstrained/C++	EPT	EPT-07		PF Primary	
C+	EPT	EPT-21		PF Secondary	
Unconstrained/C++	SPW	SPW-31		PF Primary	
Constrained (C)/OMB/C+	ELC	ELC-03		PF Replacement	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-32		PF Replacement	

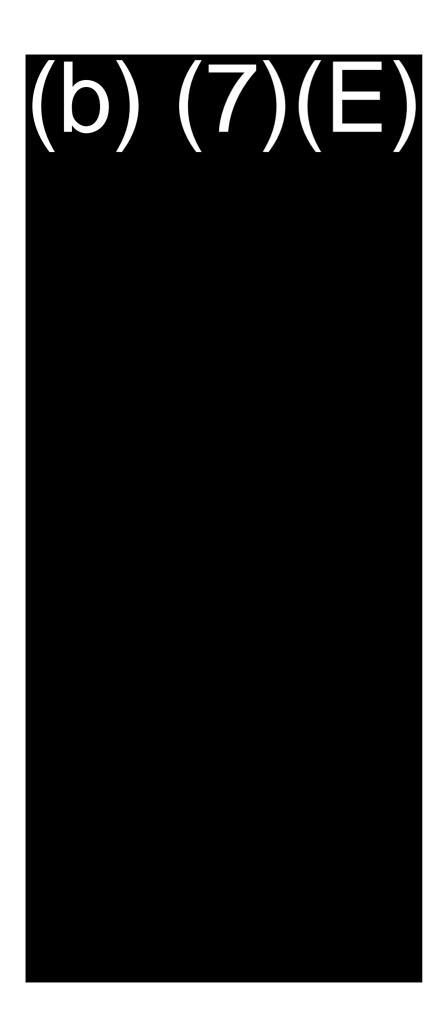
					/L\
Constrained (C)/OMB/C+	SDC	SDC-08A	SDC-B	PF Primary	(b) (7)(E)
OMB/C+	EPT	EPT-10		VF to PF	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	RGV	RGV-26		PF Primary	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-12		PF Primary	
Constrained (C)/OMB/C+	SDC	SDC-01		PF Replacement	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	EPT	EPT-19		PF Secondary	
Unconstrained/C++	TCA	TCA-06D		VF to PF	
OMB/C+	EPT	EPT-17		VF to PF	
C+	LRT	LRT-16		PF Secondary	
Unconstrained/C++	DRT	DRT-03		PF Primary	
Unconstrained/C++	SWB	SWB-04		PF Primary	
C+	EPT	EPT-24		PF Primary	
			TCA A	•	
C+	TCA	TCA-09	TCA-A	PF Primary	
C+	TCA	TCA-15	TCA-A	Unconst. PF	
C+	EPT	EPT-24		PF Primary	
C+	RGV	RGV-16		PF Primary	
C+	RGV	RGV-17		PF Primary	
C+	SPW	SPW-07		PF Secondary	
Constrained (C)/OMB/C+	SDC	SDC-02		PF Replacement	
C+	EPT	EPT-24		PF Primary	
Unconstrained/C++	RGV	RGV-08		PF Primary	
Constrained (C)/OMB/C+	TCA	TCA-04		PF Replacement	
OMB/C+	ELC	ELC-02		VF to PF	
Constrained (C)/OMB/C+	SDC	SDC-23		PF Replacement	
Unconstrained/C++	RGV	RGV-10		PF Primary	
Unconstrained/C++	HLT	HLT-34		VF Primary	
Unconstrained/C++	EPT	EPT-23		Unconst. PF	
C+	ELC	ELC-04		PF Secondary	
C+	RGV	RGV-26		PF Primary	
C+	SDC	SDC-15		PF Secondary	
C+	EPT	EPT-19		PF Secondary	
C+	RGV	RGV-15		PF Primary	
Unconstrained/C++	SPW	SPW-15		PF Primary	
•				Unconst. PF	
Unconstrained/C++	EPT	EPT-23			
C+	RGV	RGV-25		PF Primary	
C+	ELC	ELC-04		PF Secondary	
Unconstrained/C++	SWB	SWB-40		VF Primary	
C+	EPT	EPT-24		PF Primary	
C+	SDC	SDC-35		PF Secondary	
Unconstrained/C++	RGV	RGV-07		PF Primary	
Unconstrained/C++	HLT	HLT-07		VF Primary	
Unconstrained/C++	RGV	RGV-10		PF Primary	
Unconstrained/C++	SWB	SWB-23		VF Primary	
C+	EPT	EPT-24		PF Primary	

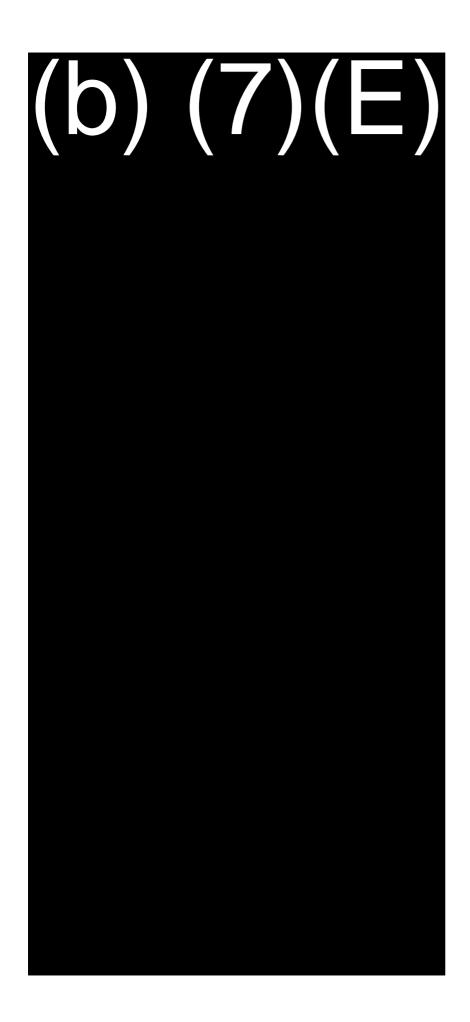
RGV	RGV-16	PF Primary
HVM	HVM-30	VF Primary
TCA	TCA-05	PF Secondary
DRT	DRT-02	PF Primary
SDC	SDC-06	PF Replacement
EPT	EPT-17	VF to PF
RGV	RGV-08	PF Primary
SWB	SWB-10	VF Primary
SWB	SWB-15	VF Primary
	HVM TCA DRT SDC EPT RGV SWB	HVM HVM-30 TCA TCA-05 DRT DRT-02 SDC SDC-06 EPT EPT-17 RGV RGV-08 SWB SWB-10















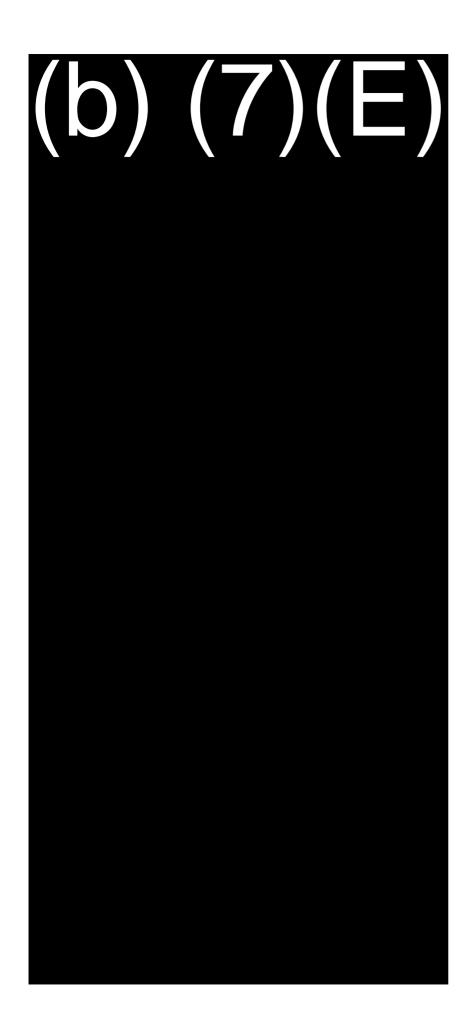










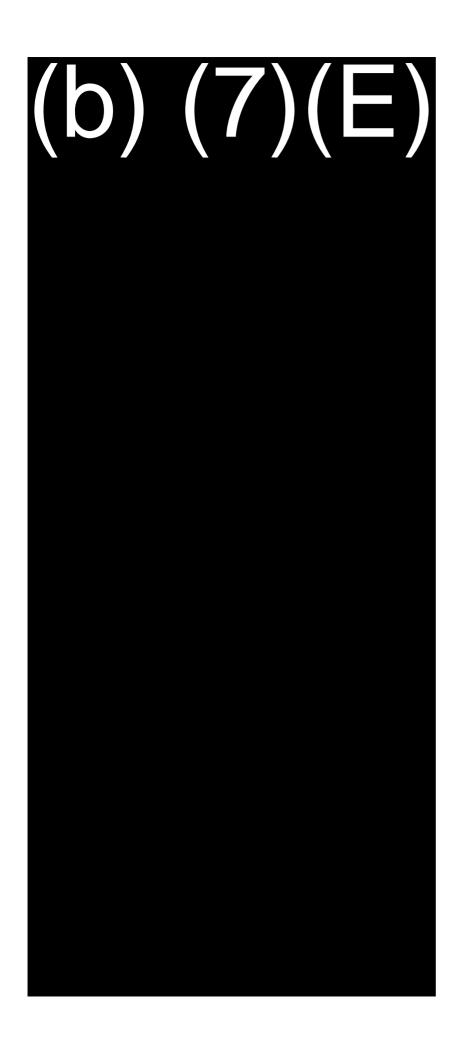














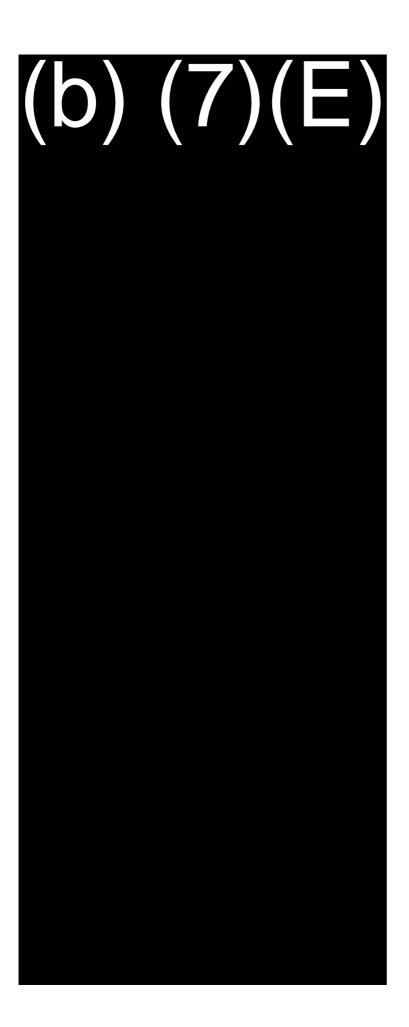












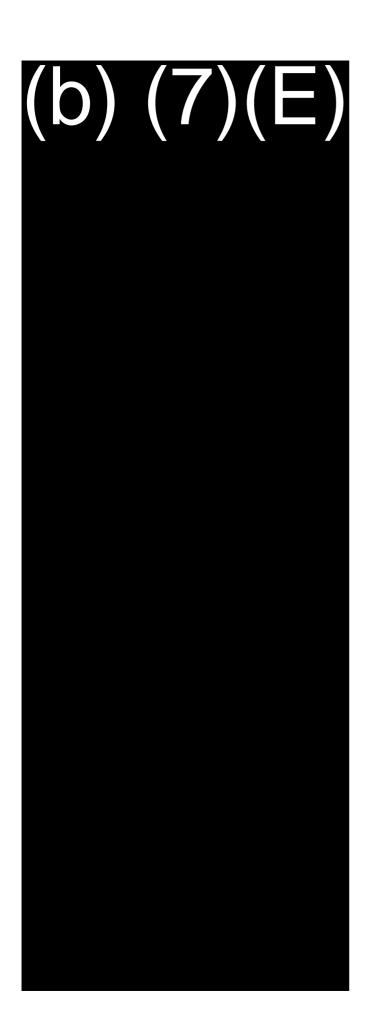






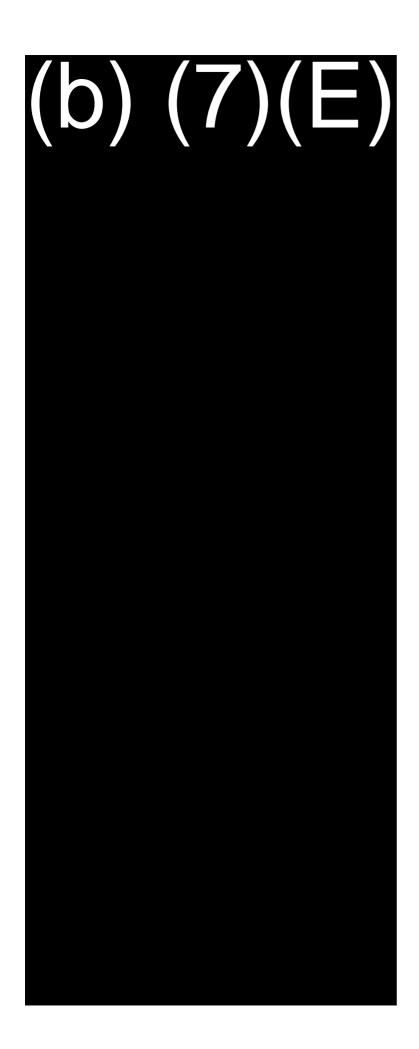
## (b) (7)(E)









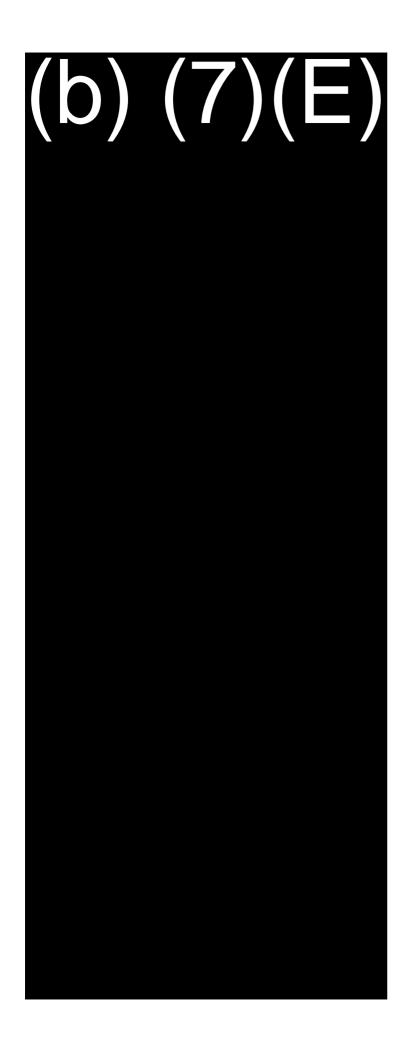


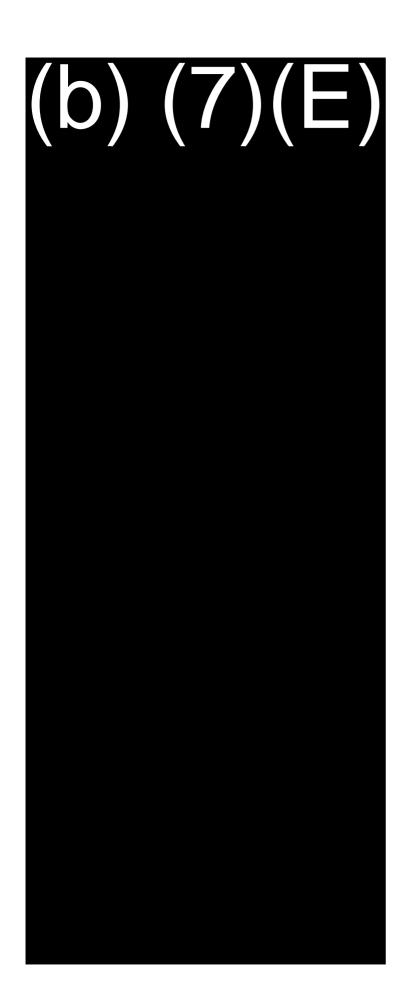












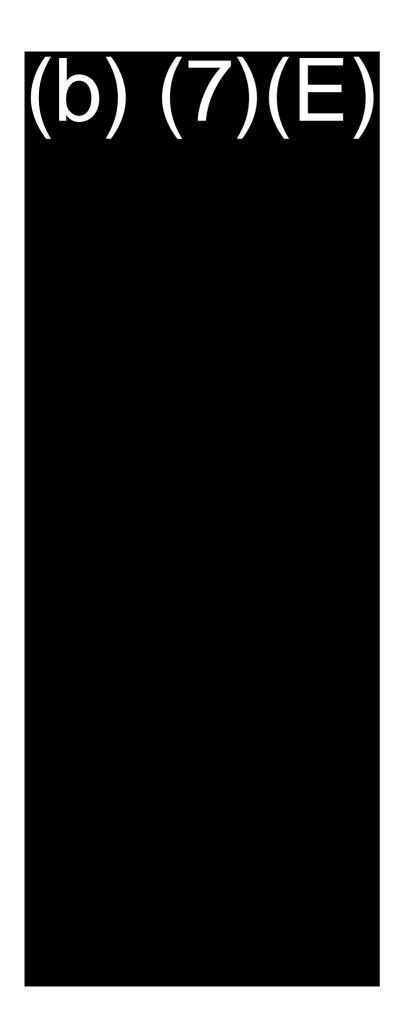


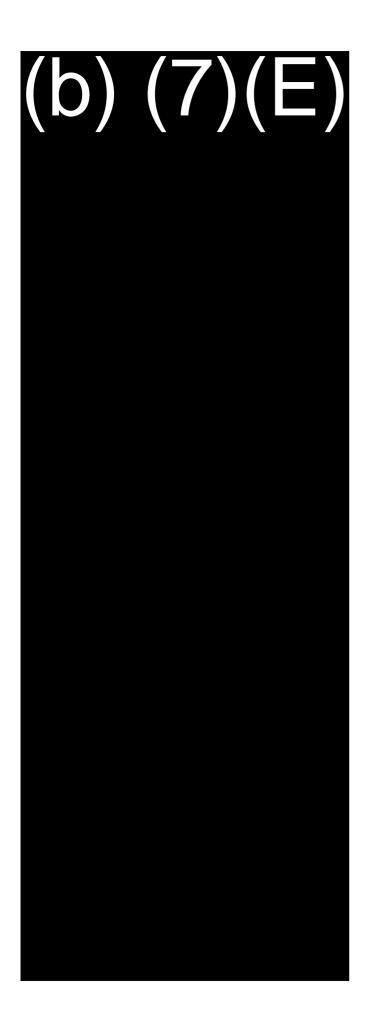


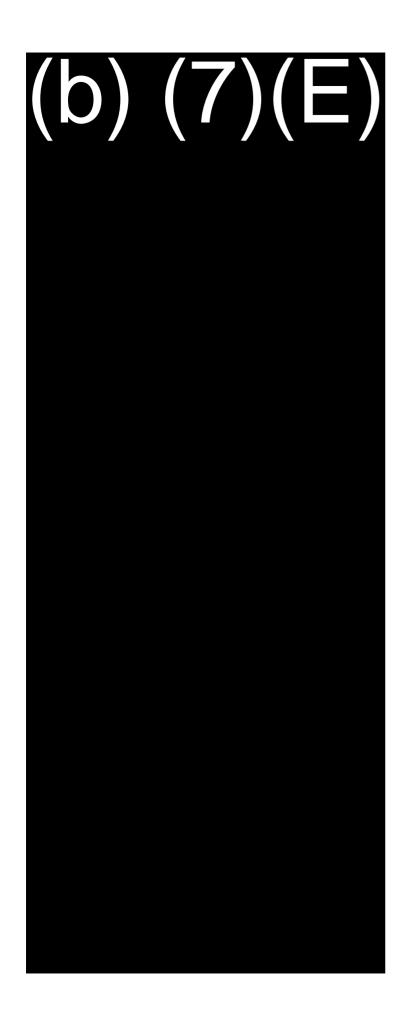


## (b) (7)(E)

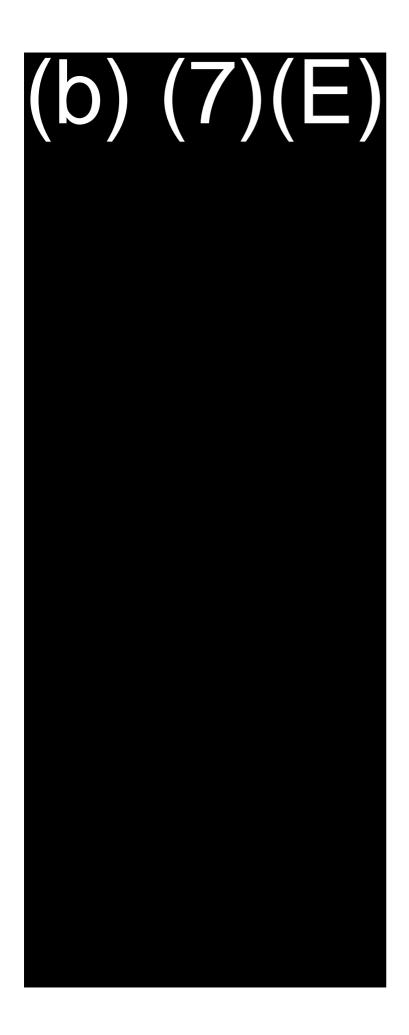








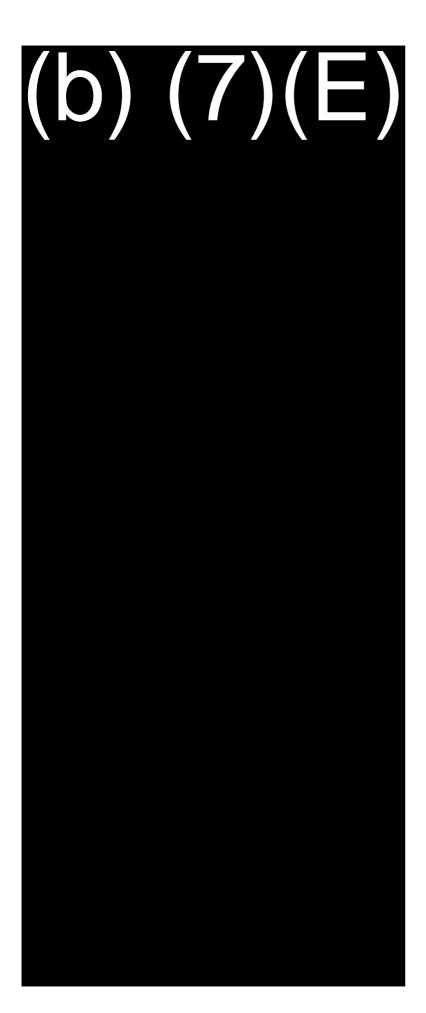




## (b) (7)(E)



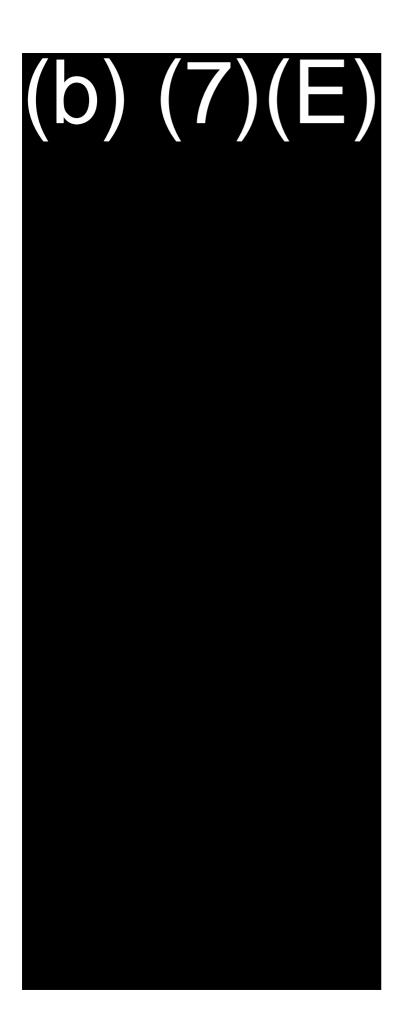










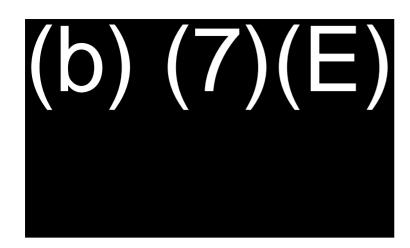














Operational\_Category

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Active value with T

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Replacement Fence

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI or other assets

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Replacement Fence

### VF to PF

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI or other assets

VF to PF

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

operationally hemevable with the

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Replacement Fence

VF to PF

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

### Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Replacement Fence

Replacement Fence

VF to PF

Replacement Fence

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI or other assets

VF to PF

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI or other assets

VF to PF

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Replacement Fence

### VF to PF

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Replacement Fence

Operationally Achievable with TI

## VF to PF

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Replacement Fence

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Replacement Fence

Replacement Fence

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

VF to PF

Replacement Fence

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI or other assets

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with 1

Operationally Achievable with TI

Operationally Achievable with TI or other assets

### VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Replacement Fence

VF to PF

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Replacement Fence

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Replacement Fence

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

# Replacement Fence

VF to PF

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI or other assets

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Replacement Fence

VF to PF

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Replacement Fence

VF to PF

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI or other assets

VF to PF

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Replacement Fence

VF to PF

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI or other assets

#### VF to PF

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Replacement Fence

Replacement Fence

VF to PF

Operationally Achievable with TI

Replacement Fence

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Replacement Fence

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Replacement Fence

### Replacement Fence

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI or other assets

Operationally Achievable with TI

Operationally remetable with T

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI

Operationally Achievable with TI

Replacement Fence

Operationally Achievable with TI or other assets

Operationally Achievable with TI

VF to PF

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

Operationally Achievable with TI

VF to PF